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L1 STRUCTURE UPLOADED

L2 6 S L1

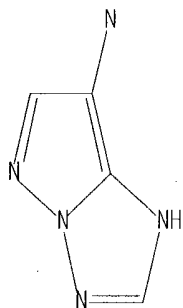
L3 195 S L1 FULL

FILE 'CAPLUS' ENTERED AT 12:02:33 ON 29 SEP 2004

L4 69 S L3

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L1 STR



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L4 69 SEA FILE=CAPLUS ABB=ON PLU=ON L3

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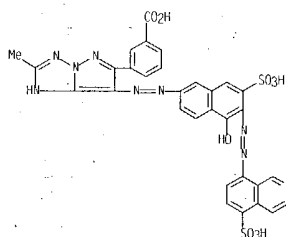
L4 ANSWER 1 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2004:305188 CAPLUS  
 DN 140:322867  
 TI Disazo dyes, inks and ink-jet recording method  
 IN Mikoshiba, Hisashi; Onatsu, Tadashi; Suzuki, Makoto; Matsuoka, Koushin;  
 Moicki, Masuji  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Eur. Pat. Appl., 83 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1408091	A1	20040414	EP 2003-29417	20020130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
JP 2002265809	A2	20020918	JP 2001-69497	20010312
JP 2002302619	A2	20021018	JP 2002-5043	20020111
JP 2002327131	A2	20021115	JP 2002-5044	20020111
EP 1229083	A2	20020807	EP 2002-2270	20020130
EP 1229083	A3	20020621		
EP 1229083	B1	20040915		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2003195342	A1	20031016	US 2003-349978	20030124
US 2003226221	A1	20031211	US 2003-350083	20030124
US 6756488	B2	20040629		
PRA1 JP 2001-24470	A	20010131		
JP 2001-54764	A	20010228		
JP 2001-69497	A	20010312		
JP 2002-5043	A	20020111		
JP 2002-5044	A	20020111		
EP 2002-2270	A3	20020130		
US 2002-59380	A3	20020131		

OS MARPAT 140:322867

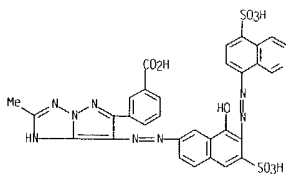
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L4 ANSWER 1 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



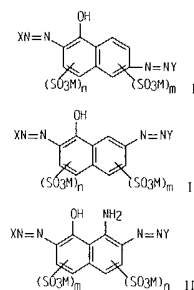
RN 678968-83-7 CAPLUS

CN Benzoic acid, 3-[7-[[[8-hydroxy-6-sulfo-7-[(5-sulfo-8-isoquinolinyl)azo]-2-naphthalenyl]azo]-2-methyl-1H-pyrazolo[1.5-b][1.2.4]triazol-6-yl]]- (9CI)  
 (CA INDEX NAME)



RE CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 1 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



AB Disclosed are black disazo dyes I, II, and III (m, n = 0, 1; M = H, monovalent ion; X, Y = heterocyclic group). The dyes are suitable for water-based jet-printing inks with improved application and image properties. In an example, J-acid was diazotized and coupled with a pyrazole derivative to give a monoazo compound which was then coupled with diazotized 8-aminoquinoline to form a black disazo dye.

IT 678968-68-8 678968-83-7

RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye: black disazo dyes for water-based jet-printing inks)

RN 678968-68-8 CAPLUS

CN Benzoic acid, 3-[7-[[[5-hydroxy-7-sulfo-6-[(5-sulfo-8-isoquinolinyl)azo]-2-naphthalenyl]azo]-2-methyl-1H-pyrazolo[1.5-b][1.2.4]triazol-6-yl]]- (9CI)  
 (CA INDEX NAME)

L4 ANSWER 2 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:5200 CAPLUS  
 DN 140:78637  
 TI Colored particle dispersion, ink jet ink, dye, and ink jet recording method  
 IN Takahashi, Mari; Ikesu, Satoru; Suzuki, Takatugu; Iwamoto, Kyoko  
 PA Konica Corporation, Japan  
 SO Eur. Pat. Appl., 88 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1375611	A2	20040102	EP 2003-14187	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004217884	A2	20040805	JP 2003-121442	20030425
US 2004010056	A1	20040115	US 2003-600160	20030620
PRA1 JP 2002-189751	A	20020628		
JP 2002-333321	A	20021118		

OS MARPAT 140:78637

AB A colored dispersion comprises a polymer and a dye X-DB, wherein X is a heterocyclic or heteroacyclic group, D is a nitrogen atom or -CR1, R1 being a hydrogen atom or a substituent, and B is a heterocyclic or heteroacyclic group. A dispersion contained polyvinyl butyral and a dye.

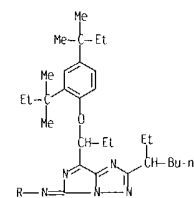
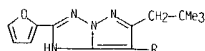
IT 640300-09-0 640302-30-3 640303-50-0

RL: TEM (Technical or engineered material use); USES (Uses)  
 (dye: colored particle dispersion, ink jet ink, dye, and ink jet recording method)

RN 640300-09-0 CAPLUS

CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, N-[7-[1-[2,4-bis(1,1-dimethylpropyl)phenoxy]propyl]-2-(1-ethylpentyl)-5H-imidazo[1,5-b][1.2.4]triazol-5-ylidene]-6-(2,2-dimethylpropyl)-2-(2-furanyl)- (9CI)  
 (CA INDEX NAME)

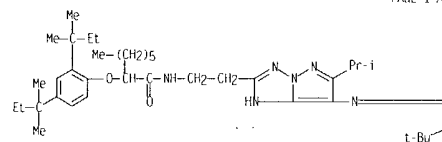
L4 ANSWER 2 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 640302-30-3 CAPLUS

CN Dodecanoic acid, 2-[[7-[[2-[[2-[[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxooctyl]amino]ethyl]-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]imino]-6-(1,1-dimethylethyl)-7H-pyrazolo[5,1-c][1,2,4-triazol-3-yl]-2-methylpropyl ester (9C1) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 3 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:947678 CAPLUS

DW 140:8455

TI Azo hair dyes

IN Pratt, Dominic; Kawagishi, Toshio

PA Kao Corporation, Japan; Fuji Photo Film Co., Ltd.

SO Eur. Pat. Appl., 47 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1366752	A1	20031203	EP 2002-11605	20020528
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003342139	A2	20031203	JP 2003-150761	20030528
	EP 1369105	A1	20031210	EP 2003-12105	20030528
PRAI	US 2004019982	A1	20040205	US 2003-445819	20030528
	EP 2002-11605	A	20020528		
OS	MARPAT 140:8455				

AB The present invention is directed to a hair dyeing composition comprising an azo dye A-N-N-B, wherein A is monovalent, optionally substituted heterocyclic group binding via the carbon atom to the azo group, that does not contain carboxy or sulfo groups or quaternary ammonium groups; B is heterocyclic, aromatic or alkyl group containing a dissociative proton and, which is free of carboxy or sulfo groups or quaternary ammonium groups. Additionally, the present invention describes a method of dyeing human or animal hair by using this direct azo dye. The use of this direct azo dye can impart the hair with an extremely vivid color and has a less color fade over the time. For example, a hair dye contained 5-[[3-(ethylthio)-1,2,4-thiadiazol-5-yl]azo]-3,6-dichloro-4-hydroxybenzene 0.2, benzyl alc. 5.0, sodium lauryl sulfate 0.01, ammonium hydroxide 5.0, hydrogen peroxide 6.0 g and water up to 100 g.

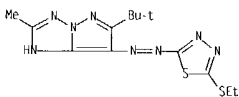
IT 168123-57-7 333303-83-6 628688-85-7

628688-90-4

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(hair dyes containing azo compds.)

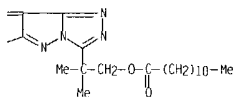
RN 168123-57-7 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-7-[[5-(ethylthio)-1,3,4-thiadiazol-2-yl]azo]-2-methyl- (9C1) (CA INDEX NAME)



L4 ANSWER 2 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

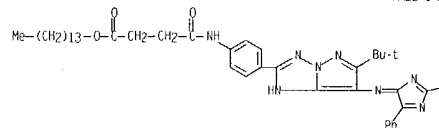
PAGE 1-B



RN 640303-50-0 CAPLUS

CN Butanoic acid, 4-[[4-[6-(1,1-dimethylethyl)-7-[(2,5-diphenyl-4H-imidazol-4-ylidene)amino]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9C1) (CA INDEX NAME)

PAGE 1-A



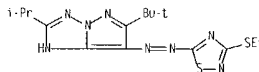
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L4 ANSWER 3 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

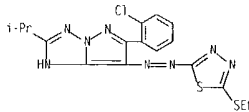
RN 333303-83-6 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-7-[[3-(ethylthio)-1,2,4-thiadiazol-5-yl]azo]-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



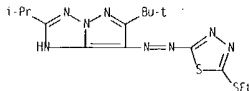
RN 628688-85-7 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(2-chlorophenyl)-7-[[5-(ethylthio)-1,3,4-thiadiazol-2-yl]azo]-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



RN 628688-90-4 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-7-[[5-(ethylthio)-1,3,4-thiadiazol-2-yl]azo]-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:672960 CAPLUS

DN 139:215953

TI Color ink-jet printing ink sets giving prints with good resistance to gas and light and method of their using

IN Yabuki, Yoshiharu

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 40 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003238863	A2	20030827	JP 2002-43490	20020220
EP 1340796	A1	20030903	EP 2003-3218	20030220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004020408	A1	20040205	US 2003-368474	20030220
PRAI JP 2002-43410	A	20020220		
JP 2002-43490	A	20020220		
JP 2002-43682	A	20020220		

AB The ink sets comprise a yellow ink, a magenta ink and a cyan ink pigmented by at least a yellow dye, a magenta dye and a cyan dye, resp., and a black ink pigmented by at least a self-dispersible pigment, where the magenta dye and cyan dye have an oxidation potential of 0.8 V (vs. SCE) or higher for improving print fastness against light and gas such as ozone gas.

IT 365280-38-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(selection of dyes having high oxidation potential for use in color ink-jet printing ink sets giving prints with good resistance to gas and light)

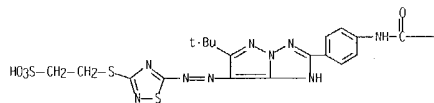
RN 365280-38-2 CAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[6-(1,1-dimethylethyl)-7-[[3-[(2-sulfoethyl)thio]-1,2,4-thiazol-5-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, trisodium salt (9CI) (CA INDEX NAME)

L4 ANSWER 4 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)

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● Na

PAGE 1-B



L4 ANSWER 5 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:671244 CAPLUS

DN 139:215947

TI Color ink-jet printing ink sets giving prints with good resistance to gas and light and method of their using

IN Yabuki, Yoshiharu

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 39 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003238862	A2	20030827	JP 2002-43410	20020220
EP 1340796	A1	20030903	EP 2003-3218	20030220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004020408	A1	20040205	US 2003-368474	20030220
PRAI JP 2002-43410	A	20020220		
JP 2002-43490	A	20020220		
JP 2002-43682	A	20020220		

AB The ink sets comprise a yellow ink, a magenta ink and a cyan ink pigmented by at least a yellow dye, a magenta dye and a cyan dye, resp. where the magenta dye and cyan dye are selected so that they have an oxidation potential of 0.8 V (vs. SCE) or higher for improving print fastness against light and gas such as ozone gas.

IT 365280-38-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(selection of dyes having high oxidation potential for use in color ink-jet printing ink sets giving prints with good resistance to gas and light)

RN 365280-38-2 CAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[6-(1,1-dimethylethyl)-7-[[3-[(2-sulfoethyl)thio]-1,2,4-thiazol-5-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, trisodium salt (9CI) (CA INDEX NAME)

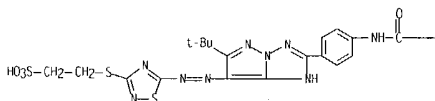
L4 ANSWER 5 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)

PAGE 1-B



PAGE 1-A



● Na

L4 ANSWER 6 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:607531 CAPLUS

DN 139:165992

TI Colorants for magenta inks of color ink sets, method of printing and printed articles using the inks

IN Yamada, Masato; Yabuki, Yoshiharu

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 66 pp.

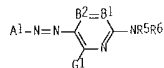
CODEN: JKXXAF

DT Patent

LA Japanese

FAN: CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003221534	A2	20030808	JP 2002-25571	20020201
PRAI	JP 2002-25571		20020201		
OS	MARPAT 139:165992				
GI					



AB The ink sets contain magenta ink based on I (A1 = residue derived from 5-membered heterocyclic diazo component A1NH2; B1, B2 = -CR1- or -CR2-, 1 of them can be N; R5, R6 = H, aliphatic, aryl, etc.; G1, R1, R2 = H, halogen, aliphatic, aryl, etc.) or/and specific phthalocyanine compds. for improving ink delivery, coloration and resistance to light and water.

IT 365280-35-9

RL: TEM (Technical or engineered material use); USES (Uses)  
(dyes; colorants for magenta inks of color ink sets, method of printing and printed articles using the inks)

RN 365280-35-9 CAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[7-[(4-cyano-3-methyl-5-isothiazolyl)azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, disodium salt (9C1) (CA INDEX NAME)

L4 ANSWER 7 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:197607 CAPLUS

DN 138:229358

TI Materials for forming pigments and images and imaging methods

IN Sato, Hiroshi; Arai, Kinzo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 24 pp.

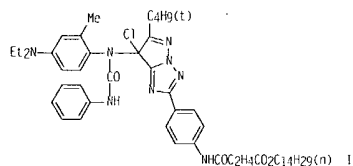
CODEN: JKXXAF

DT Patent

LA Japanese

FAN: CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003073577	A2	20030312	JP 2001-26490	20010831
PRAI	JP 2001-26490		20010831		
OS	MARPAT 138:229358				
GI					



AB Azomethine precursors having aromatic rings, coupler residues, carbanoyl groups, and leaving groups are treated with deprotective groups to form pigments. Thus, a dispersion containing microencapsulated I and an emulsion containing tetrabutylammonium octanoate (II), a color, (m-FC6H4)3B-C6H13 N+Bu4, trimethylolpropane trimethacrylate, p-(2-ethylhexyloxy)phenylsulfonamide, tricresyl phosphate, and Pinonin A 41C were mixed at 0.25 mmol/m2 I and 0.5 mmol/m2 (II), coated on a white polyester base, and dried to prepare an image.

IT 501117-77-7

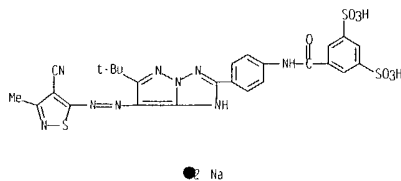
RL: TEM (Technical or engineered material use); USES (Uses)  
(azomethine precursors and deprotective groups for forming pigments and images and imaging methods)

RN 501117-77-7 CAPLUS

CN Benzenesulfonamide, N-[4-[7-[[4-(diethylamino)-2-methylphenyl][(phenylamino)carbonyl]amino]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9C1) (CA INDEX NAME)

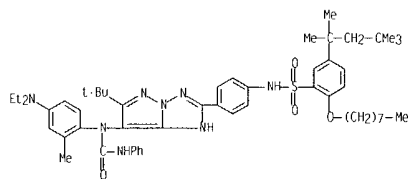
L4 ANSWER 6 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)



L4 ANSWER 7 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

(Continued)



L4 ANSWER 8 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:196640 CAPLUS

DN 138:229304

TI Heat- and pressure-sensitive imaging material and method of forming images by dry process

IN Arai, Kinzo; Sato, Hiroshi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 54 pp.

CODEN: JXXXXF

DT Patent

LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1	JP 2003076000	A2	20030312	JP 2001-269843	20010906
PRA1	JP 2001-269843		20010906		
OS	MARPAT 138:229304				

AB The imaging material comprises a support and an image-forming layer containing a dye precursor and a deblocking agent which forms a dye upon reacting with the dye precursor, wherein the deblocking agent is a nucleophilic reagent. The material is directly subjected to imagewise heating or applying pressure to form an image. Alternatively, the imaging material may further contain a photopolymerizable compound and a photopolymerization initiator and is imagewise-exposed to light first to form a latent image, and then subjected to heating or applying pressure to fix the image.

IT 501093-69-2

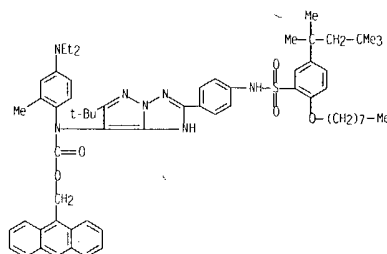
RL: TEM (Technical or engineered material use): USES (Uses)

(dye precursor: heat- and pressure-sensitive imaging material containing dye precursor and nucleophilic deblocking agent which react with dye precursor, and image formation by dry process)

RN 501093-69-2 CAPLUS

CN Carbanic acid, [4-(diethylamino)-2-methylphenyl][6-(1,1-dimethylethyl)-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-, 9-anthracenylmethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 9 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:196365 CAPLUS

DN 138:229286

TI Image-forming material containing azomethine dye precursor and deblocking agent, and image forming method

IN Sato, Hiroshi; Arai, Kinzo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 23 pp.

CODEN: JXXXXF

DT Patent

LA Japanese

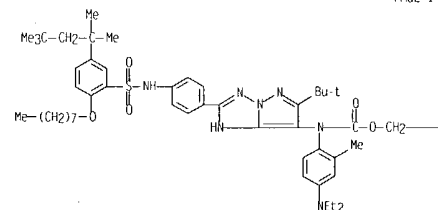
FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1	JP 2003072245	A2	20030312	JP 2001-264489	20010831
PRA1	JP 2001-264489		20010831		
OS	MARPAT 138:229286				

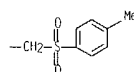
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L4 ANSWER 9 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



AB The material contains an azomethine dye precursor I [Ar = (substituted) aromatic or heterocyclic ring; Cp = coupler residue; L1 = CO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>SO<sub>2</sub>R1; R1 = (substituted) alkyl, aryl, or heterocycle; L2 = H, substituent to be released during dye formation] and a deblocking agent. ApBq (A = group with mono- to tri-valent pos. charge; B = charge neutralizing group with neg. charge; p, q = 1-6) reacting with the precursor for azomethine dye formation. Images are formed by heating the material imagewise for reacting the precursor with the deblocking agent. The material may also contain a photopolymerization initiator and a polymerizable compound (A), and images may be formed by irradiating light for curing A to form latent images and heating for forming the azomethine dye by reacting the dye with the deblocking agent. Images can be formed easily without using silver halide and liquid developer.

IT 501093-34-1

RL: TEM (Technical or engineered material use): USES (Uses)

(thermal printing material containing azomethine dye precursor and deblocking agent)

RN 501093-34-1 CAPLUS

CN Carbanic acid, [4-(diethylamino)-2-methylphenyl][6-(1,1-dimethylethyl)-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-, 2-[(4-methylphenyl)sulfonyl]ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 10 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:112933 CAPLUS

DN 138:172019

TI Water-based storage-stable ink-jet inks giving prints with good water resistance and sharpness and ink-jet recording method using them

IN Nishida, Nobuhiro; Fujiwara, Yoshinori

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 36 pp.

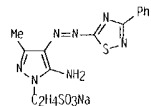
CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1 JP 2003041163	A2	20030213	JP 2001-224807	20010725
PRA1 JP 2001-224807		20010725		
OS HARPAT 138:172019				
GI				



AB The inks contain dyes which are miscible with an aqueous medium containing a water-soluble organic solvent and a specific N compound where the dyes are selected from N-N group-containing 3-aminopyrazole compds., N-N group-containing condensed pyrazole compds. or/and N-N group-containing 6-hydroxy-2-pyridone compds. The inks are useful for printing of substrates such as paper bearing an inorg. pigment-coated ink receptive layer. Thus, a yellow ink was obtained from 1,4,7, diethylene glycol 160, glycerin 150, triethylene glycol monobutyl ether 130, triethanolamine 0.8, benzotriazole 0.06, Proxel XL-2 2.5, Surfynol 465 10 and Me2NHHCOC6H4(SO3Na)-2 9.45 g/L in water. The yellow ink could be used with other conventional color inks in ink jet printing for yielding good print quality.

IT 365280-35-9 365280-37-1 496856-84-9

RL: PRP (Properties): TEM (Technical or engineered material use): USES (Uses)

(yellow dye; manufacture of water-based storage-stable ink-jet inks giving prints with good water resistance and sharpness and ink-jet recording method using them)

RN 365280-35-9 CAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[7-[(4-cyano-3-methyl-5-

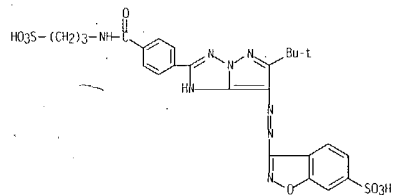
L4 ANSWER 10 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

—CH2—SO3H

RN 496856-84-9 CAPLUS

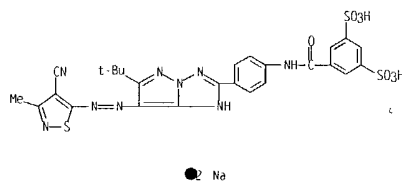
CN 1,2-Benzisoxazole-6-sulfonic acid, 3-[[[6-(1,1-dimethylethyl)-2-[4-[[[3-(sulfoxypropyl)amino]carbonyl]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-, dipotassium salt (9C1) (CA INDEX NAME)



● 2 K

L4 ANSWER 10 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

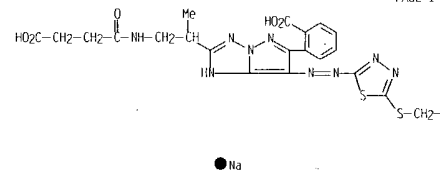
isothiazolyl)azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, disodium salt (9C1) (CA INDEX NAME)



RN 365280-37-1 CAPLUS

CN Benzoic acid, 2-[2-[2-[(3-carboxy-1-oxopropyl)amino]-1-methylethyl]-7-[[5-[(2-sulfoethyl)thio]-1,3,4-thiadiazol-2-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]-, monosodium salt (9C1) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 11 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:111108 CAPLUS

DN 138:155161

TI Low-odor water-based yellow inks compositions and ink-jet recording method using them

IN Nishida, Nobuhiro; Yamanouchi, Junichi; Fujiwara, Yoshinori

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 35 pp.

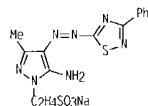
CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1 JP 2003041161	A2	20030213	JP 2001-224805	20010725
US 2003089274	A1	20030515	US 2002-200128	20020723
PRA1 JP 2001-224805	A	20010725		
OS HARPAT 138:155161				
GI				



AB The inks, when used with other color inks, giving prints with fine-line precision and good resistance to water and weather, contain water-soluble dyes and surfactants where the dyes are selected from N-N group-containing (optionally condensed) pyrazole compds. or/and N-N group-containing 6-hydroxy-2-pyridone compds. Thus, a typical yellow ink was obtained from 1,4,7, diethylene glycol 160, glycerin 150, triethylene glycol monobutyl ether 130, triethanolamine 0.8, benzotriazole 0.06, Proxel XL-2 (benzisothiazol-3-one) 2.5 and polyethylene glycol mono-6-undecyl ether 10 g/L in water.

IT 365280-35-9 365280-37-1 496856-84-9

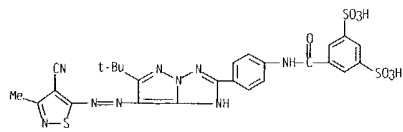
RL: PRP (Properties): TEM (Technical or engineered material use): USES (Uses)

(yellow dye; manufacture of low-odor water-based yellow inks compns. for ink-jet recording with good water and weather resistance)

RN 365280-35-9 CAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[7-[(4-cyano-3-methyl-5-isothiazolyl)azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, disodium salt (9C1) (CA INDEX NAME)

L4 ANSWER 11 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

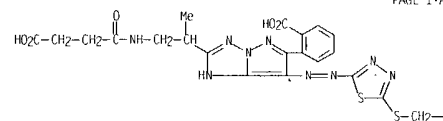


● Na

RN 365280-37-1 CAPLUS

CN Benzoic acid, 2-[[2-[[2-[(3-carboxy-1-oxopropyl)amino]-1-methylethyl]-7-[[5-[(2-sulfoethyl)thio]-1,3,4-thiadiazol-2-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]]-monosodium salt (9C1) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B

—CH<sub>2</sub>—SO<sub>3</sub>H

RN 496856-84-9 CAPLUS

L4 ANSWER 12 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:111107 CAPLUS

DN 138:155160

TI Aqueous ink compositions with storage stability and lightfastness and

ink-jet printing method therewith

IN Yamada, Masato; Yabuki, Yoshiharu

PA Fujii Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 31 pp.

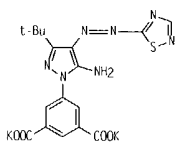
CODEN: JKKXXAF

DT Patent

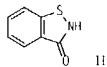
LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003041160	A2	20030213	JP 2001-224719	20010725
PRA1	JP 2001-224719		20010725		
QS	MARPA1 138:155160				
GI					



I



II

AB Title compns. contain (a) water-soluble dyes selected from ionic hydrophilic group-containing azopyrazole derivs. and ionic hydrophilic group-containing azohydroxyoxypyridine derivs. and (b) antimicrobial agents. An ink set containing an aqueous yellow ink containing I and 4-g/L II showed discharge stability initially and after 1 mo at 50° and was ink-jet printed to give prints with color d. retention of ≥70% after 2 wk under weatherometer.

IT 365280-35-9

RL TEM (Technical or engineered material use); USES (Uses)

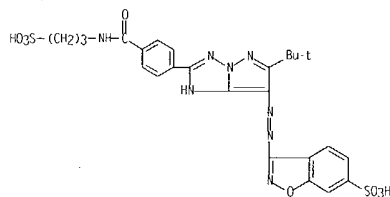
(aqueous ink-jet inks containing azopyrazole or azohydroxyoxypyridine dyes and antimicrobial agents for storage stability)

RN 365280-35-9 CAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[[4-cyano-3-methyl-5-isothiazolyl]azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, disodium salt (9C1) (CA INDEX NAME)

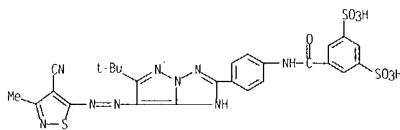
L4 ANSWER 11 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CN 1,2-Benzisoxazole-6-sulfonic acid, 3-[[[6-(1,1-dimethylethyl)-2-[4-[[[3-(sulfopropyl)amino]carbonyl]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]]-dipotassium salt (9C1) (CA INDEX NAME)



● K

L4 ANSWER 12 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● Na



L4 ANSWER 13 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:921467 CAPLUS  
DN 138:18103

TI Azomethine pigment formation materials, their silver-free heat-developable photoimaging materials, and photothermography using them  
IN Sato, Hiroshi; Arai, Kinzo; Hanasaki, Kyoko  
PA Fuji Photo Film Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 25 pp.  
CODEN: JKKXAF

DT Patent  
LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002348490	A2	20021204	JP 2001-160853	20010529
PRAI	JP 2001-160853		20010529		
OS	MARPAT 138:18103				
GT					



AB The pigment formation materials comprise (A) azomethine pigment precursors I (Ar = aromatic ring, hetero ring; Cp = coupler residue; L1 = fluorenylmethoxycarbonyl; L2 = H, group leaving on pigment formation) and (B) ApBq (A = atom, group having mono-, di-, or tri-valent pos. charge; B = atom, group having neg. charge neutralizing A; p, q = 1-6). The materials contain photopolymerizable compds., which are cured by irradiation to form latent images and fix the pigment precursor distribution. Good photothermog. images are obtained without liquid treatments by this invention.

IT 287399-76-2

RL: TEM (Technical or engineered material use); USES (Uses)  
(pigment precursor: azomethine pigments for heat-developable silver-free photoimaging materials)

RN 287399-76-2 CAPLUS

CN Carbanic acid, [4-(diethylamino)-2-methylphenyl][5-(1,1-dimethylethyl)-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-9H-fluoren-9-ylmethyl ester (9C1) (CA INDEX NAME)

L4 ANSWER 14 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:765761 CAPLUS  
DN 137:286524

TI Thermographic and photothermographic material containing dye precursor and deblocking agent

IN Sato, Hiroshi; Matsumoto, Hirohisa

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 48 pp.

CODEN: JKKXAF

DT Patent

LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002293039	A2	20021009	JP 2001-97318	20010329
PRAI	JP 2001-97318		20010329		
OS	MARPAT 137:286524				

AB The material comprises a support coated with an image-forming layer containing a dye precursor and meso ion compound, metal salt, or meso ion metal complex as a deblocking agent. The image-forming layer contains  $\geq 1$  of ArNL(Cp) and ArNL(CpL2) (Ar = (un)substituted aromatic ring or heterocycle; Cp = coupler; L, L1 = blocking group; L2 = releasing or deblocking group after releasing L1) as a dye precursor and an oxidant or a metal salt as a deblocking agent. Image is formed by imagewise heating and/or pressing the material. The material may also contain a photopolymer, initiator and a polymerizable compound, and image is formed by irradiating the material with light to be absorbed by the photopolymer, initiator, forming latent images by polymerizing the compound, and uniformly heating or pressing. The material shows high sensitivity and gives images by dry processing.

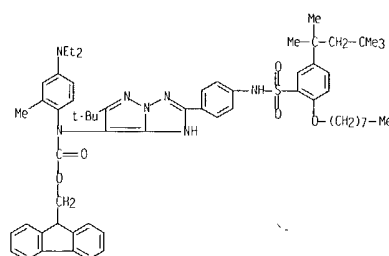
IT 466678-57-9 466678-58-0 466678-60-4

RL: TEM (Technical or engineered material use); USES (Uses)  
(thermog. material containing dye precursor and deblocking agent)

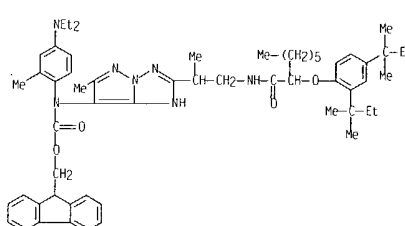
RN 466678-57-9 CAPLUS

CN Carbanic acid, [2-[2-[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxooctyl]amino]-1-methylethyl]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl][4-(diethylamino)-2-methylphenyl]-9H-fluoren-9-ylmethyl ester (9C1) (CA INDEX NAME)

L4 ANSWER 13 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

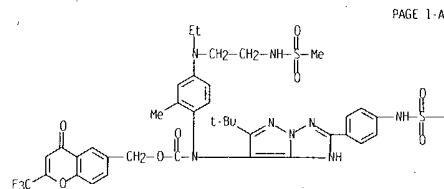


L4 ANSWER 14 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



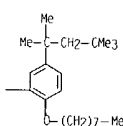
RN 466678-58-0 CAPLUS

CN Carbanic acid, [6-(1,1-dimethylethyl)-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl][4-ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]-[4-oxo-2-(trifluoromethyl)-4H-1-benzopyran-6-yl]methyl ester (9C1) (CA INDEX NAME)



PAGE 1-A

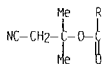
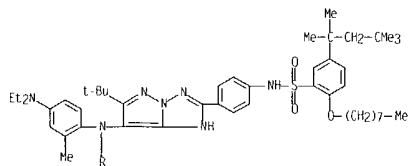
PAGE 1-B



L4 ANSWER 14 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 466678-60-4 CAPLUS

CN Carbamic acid, [4-(diethylamino)-2-methylphenyl][6-(1,1-dimethylethyl)-2-  
[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl-  
1]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-, 2-cyano-1,1-dimethylethyl  
ester (9C1) (CA INDEX NAME)



L4 ANSWER 15 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:592063 CAPLUS

DN 137:141849

TI Azo compounds, their tautomers, and metal-containing azo compounds with  
excellent color tone and light resistance and their manufacture

IN Jinbo, Yoshihiro; Nagase, Hisato; Minami, Kazumori

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 28 pp.

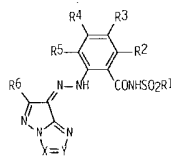
CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1	JP 2002220543	A2	20020809	JP 2001-16309	20010124
PRA1	JP 2001-16309		20010124		
OS	MARPAT 137:141849				
G1					



AB The azo compds., useful for printing inks, are represented as I (R1,6 = alkyl, aryl; R2-5 H, substituent; one of X and Y = CR7 while the other = N; R7 = alkyl, aryl). Thus, a dye prepared from 2.0 g 3-(3-octyloxyphenyl)-6-tert-butylpyrazolo[5,1-c]triazole and 2.6 g 3-(2-octyloxycarbonylphenylsulfonyl)-6-methylsulfonylbenzo[e]-3,4-dihydro-1,2,3-triazin-4-one showed  $\lambda_{\text{max}}$  (in MeOH) 433 nm.

IT 444993-30-0P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

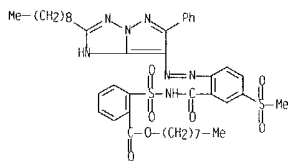
(manufacture of azo compds., their tautomers, and metal-containing azo compds. with good yellow color tone and light resistance)

RN 444993-30-0 CAPLUS

CN Benzoic acid, 2-[[[5-(methylsulfonyl)-2-[(2-nonyl-6-phenyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]benzoyl]amino]sulfonyl]-, octyl ester (9C1) (CA

L4 ANSWER 15 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

INDEX NAME)



L4 ANSWER 16 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:255941 CAPLUS

DN 136:297377

TI High conversion efficiency durable semiconductor for photoelectric  
converter, the photoelectric converter, and photoelectrochemical cell

IN Okubo, Kimihiko; Kita, Hiroshi

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1	JP 2002100420	A2	20020405	JP 2000-290467	20000925
PRA1	JP 2000-290467		20000925		
OS	MARPAT 136:297377				
G1					



I



II

AB The semiconductor is sensitized with  $\geq 1$  organic metal complexes having N anion-metal cation ionic coordination bond or N- or chalcogenic atom-metal coordination bond. The anion of the complex is selected from R<sup>1</sup>N:A3A2:AINHR [A1-3 = (substituted) methine group (-CRA-); or N; R, R' and Ra = H or substituents and may form rings], R<sup>1</sup>X8A2:AINHR (XB = -NRB- or chalcogen atom, Rb = H or substituent), I (R1-3 = H or substituents, with  $\geq 1$  of R1-3 containing metal cation coordinating N or chalcogen atom separated by 2-3 atoms from a N atom that forming ion coordination with a metal ion, R2 and R3 may join to form an imidazole ring), II (R4-6 = H or substituents, with  $\geq 1$  of R4-6 containing metal cation coordinating N or chalcogen atom separated by 2-3 atoms from a N atom that forming ion coordination with a metal ion, R4 and R5 or R5 and R6 may form an imidazole ring), or condensed ring derivs. of I and II. The photoelectrochem. cell contains a photoelec. converter using the semiconductor.

IT 408346-59-80, complexes with ruthenium

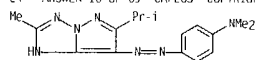
RL: MOD (Modifier or additive use); USES (Uses)

(semiconductor materials sensitized by heterocyclic nitrogen compound metal complexes for photoelectrochem. cells)

RN 408346-59-8 CAPLUS

CN Benzenamine, N,N-dimethyl-4-[[[2-methyl-6-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 16 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 17 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:98724 CAPLUS

ON 136:158760

TI Oxadiazolyl azo dye as yellow or magenta dye and silver halide color heat-developable photographic element

IN Uchida, Osamu; Ishiwata, Yasuhiro

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 57 pp.

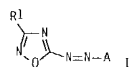
CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002038042	A2	20020206	JP 2000-224563	20000725
	US 2002146651	A1	20021010	US 2001-911727	20010725
	US 6555691	B2	20030429		
	US 2003204094	A1	20031030	US 2003-369132	20030206
PRA1	JP 2000-224547	A	20000725		
	JP 2000-224563	A	20000725		
	JP 2001-40774	A	20010216		
	US 2001-911727	A3	20010725		
OS	MARPAT 136:158760				
GI					



AB The invention relates to a 1,2,4-oxadiazolyl azo dye represented by I (R1 = H, substituent; A = atoms necessary for forming azo dye). The above oxadiazolyl azo dye shows excellent absorption characteristics and durability against light, heat, humidity, air, and chemical

IT 395666-70-3

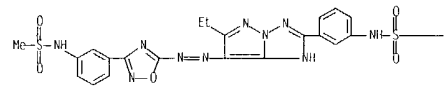
RL: DEV (Device component use): USES (Uses)  
(light resistance improvement: 1,2,4-oxadiazolyl azo dye as yellow or magenta dye in silver halide color heat-developable photog. element)

RN 395666-70-3 CAPLUS

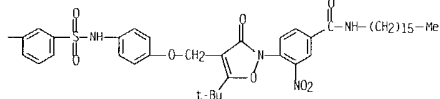
CN Benzamide, 4-[5-(1,1-dimethylethyl)-4-[[4-[[[3-[[[3-[6-ethyl-7-[[3-[3-[(methylsulfonyl)amino]phenyl]-1,2,4-oxadiazol-5-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]sulfonyl]amino]phenoxy)methyl]-3-oxo-2(3H)-isoxazolyl]-N-hexadecyl-3-nitro- (9C1) (CA INDEX NAME)

L4 ANSWER 17 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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PAGE 1-B



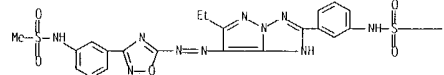
IT 395666-71-4

RL: DEV (Device component use): USES (Uses)  
(sharpness improvement: 1,2,4-oxadiazolyl azo dye as yellow or magenta dye in silver halide color heat-developable photog. element)

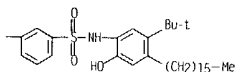
RN 395666-71-4 CAPLUS

CN 1,3-Benzenedisulfonamide, N-[5-(1,1-dimethylethyl)-4-hexadecyl-2-hydroxyphenyl]-N'-[3-[6-ethyl-7-[[3-[3-[(methylsulfonyl)amino]phenyl]-1,2,4-oxadiazol-5-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-N''-[5-(hexadecyloxy)-2-hydroxy-4-(1,1,3,3-tetramethylbutyl)phenyl]- (9C1) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IT 395666-69-0

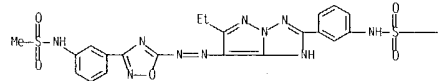
RL: DEV (Device component use): USES (Uses)  
(yellow dye: 1,2,4-oxadiazolyl azo dye as yellow or magenta dye in

L4 ANSWER 17 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
silver halide color heat-developable photog. element)

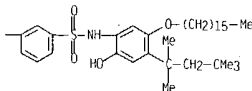
RN 395666-69-0 CAPLUS

CN 1,3-Benzenedisulfonamide, N-[3-[6-ethyl-7-[[3-[3-[(methylsulfonyl)amino]phenyl]-1,2,4-oxadiazol-5-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-N'-[5-(hexadecyloxy)-2-hydroxy-4-(1,1,3,3-tetramethylbutyl)phenyl]- (9C1) (CA INDEX NAME)

PAGE 1-A

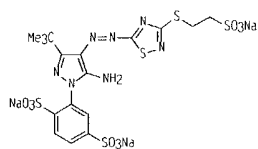


PAGE 1-B



L4 ANSWER 18 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:738377 CAPLUS  
 DN 135:290299  
 TI Dyes, ink-jet inks therefrom and jet-printing method therewith  
 IN Fujiwara, Yoshinori  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho. 32 pp.  
 CODEN: JKKXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001279145	A2	20011010	JP 2001-15614	20010124
	US 2001029869	A1	20011018	US 2001-767727	20010124
	US 6582502	B2	20030624		
PRAI	JP 2000-15853	A	20000125		
OS	MAPAT 135:290299				
G1					



1

AB The pigments, useful to prepare aqueous ink-jet inks forming lightfast prints with good color hue, contain the ones with a structure of AN.NB [A, B = (substituted) heterocyclic group, with at least one ionic hydrophilic group in whole mol]. An aqueous ink containing diethanolamine, glycerol, diethylene glycol, tetraethylene glycol mono-Bu ether, and 4% I gave prints with good yellow color hue and color concentration maintenance >80% after 3 days under weatherometer.

IT 365280-35-9 365280-36-0 365280-37-1

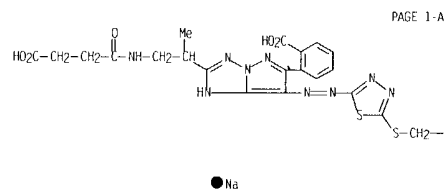
365280-38-2 365280-39-3 365280-40-6

RL: TEM (technical or engineered material use); USES (Uses)  
 (ionic hydrophilic group-containing azo dye-containing aqueous ink-jet inks with good color hue and light resistance)

RN 365280-35-9 CAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[4-[[7-[(4-cyano-3-methyl-5-isothiazolyl)azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-

L4 ANSWER 18 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 [(2-sulfoethyl)thio]-1,3,4-thiadiazol-2-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]-, monosodium salt (9C1) (CA INDEX NAME)



● Na

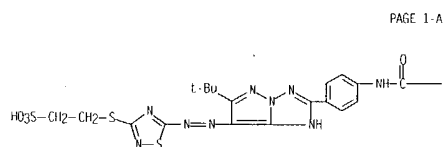
PAGE 1-A

PAGE 1-B

—CH2—SO3H

RN 365280-38-2 CAPLUS

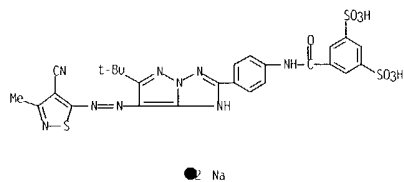
CN 1,3-Benzenedisulfonic acid, 5-[[[4-[[6-(1,1-dimethylethyl)-7-[[[3-[(2-sulfoethyl)thio]-1,2,4-thiadiazol-5-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, trisodium salt (9C1) (CA INDEX NAME)



● Na

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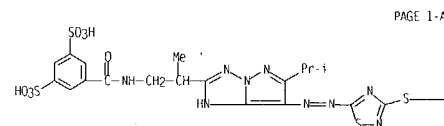
L4 ANSWER 18 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 yl]phenyl]amino]carbonyl]-, disodium salt (9C1) (CA INDEX NAME)



● Na

RN 365280-36-0 CAPLUS

CN 1,3-Benzenedisulfonic acid, 5-[[[2-[[6-(1-methylethyl)-7-[[[3-[(2-sulfoethyl)thio]-1,2,4-thiadiazol-5-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]amino]carbonyl]-, trisodium salt (9C1) (CA INDEX NAME)



PAGE 1-A

● Na

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—CH2—CH2—SO3H

RN 365280-37-1 CAPLUS

CN Benzoic acid, 2-[2-[[3-carboxy-1-oxopropyl]amino]-1-methylethyl]-7-[[5-

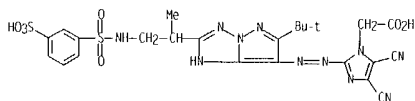
L4 ANSWER 18 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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RN 365280-39-3 CAPLUS

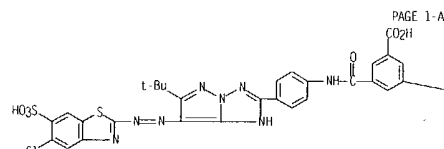
CN 1H-imidazole-1-acetic acid, 4,5-dicyano-2-[[[6-(1,1-dimethylethyl)-2-[1-methyl-2-[[[3-sulfophenyl]sulfonyl]amino]ethyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-, monopotassium salt (9C1) (CA INDEX NAME)



● K

RN 365280-40-6 CAPLUS

CN 1,3-Benzenedicarboxylic acid, 5-[[[4-[[7-[(5-chloro-6-sulfo-2-benzothiazolyl)azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-, monosodium salt (9C1) (CA INDEX NAME)



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● Na

L4 ANSWER 18 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

-CO<sub>2</sub>H

L4 ANSWER 19 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:388934 CAPLUS

DN 135:12166

TI Diffusion-transfer photothermographic copying materials with good color discrimination and suitability for rapid processing

IN Ito, Takayuki; Mizukawa, Hiroki

PA Fujii Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 65 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001147510	A2	20010529	JP 1999-330418	19991119
PRAI JP 1999-330418		19991119		
CG MARPAT 135:12166				

AB The materials contain couplers Cp-A-E-Lin-Dye [Cp = coupler residues; E = electrophilic moieties; A = single bond, bivalent linkages which release Lin-Dye moieties while forming (4-8-membered) rings upon intramol. nucleophilic substitution reaction between E and developer-derived M; L1 = bivalent linkages; n = 0, 1; Dye = diffusive dye residues] and developers represented by HO-L2-NH-D-T-M [L2 = (substituted) p-phenylene; D = CO, SO, SO<sub>2</sub>, P, O; T = bivalent linkages; M = nucleophilic groups] or by QNHRHS [Q = 5-7-membered unsatd. rings bonding to NRHRHS with C; R5 = carbanoyl, acyl, alkoxycarbonyl, aryloxy carbonyl, sulfonyl, sulfamoyl].

IT 342380-23-B

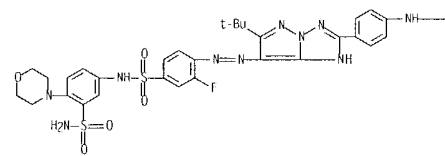
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)  
(couplers: diffusion-transfer photothermog. copying materials with good color discrimination and suitability for rapid processing)

RN 342380-23-B CAPLUS

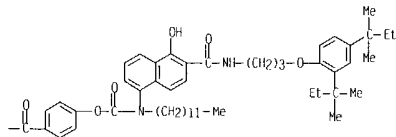
CN Carbamic acid, 6-[[[3-[2,4-bis(1,1-dimethylpropyl)phenoxy]propyl]amino]carbonyl]-5-hydroxy-1-naphthalenyl]dodecyl-, 4-[[[4-[7-[[[4-[[[3-(aminosulfonyl)-4-(4-morpholinyl)phenyl]amino]sulfonyl]-2-fluorophenyl]azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]phenyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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PAGE 1-B



L4 ANSWER 20 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:261327 CAPLUS

DN 134:303086

TI Heat-developing color photographic material

IN Maruse, Hideaki; Mizukawa, Hiroki

PA Fujii Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 66 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001100384	A2	20010413	JP 1999-275755	19990929
US 6340561	B1	20020122	US 2000-675437	20000929
PRAI JP 1999-275755	A	19990929		

AB In the heat-developable photog. material comprising a support having ≥2 photosensitive layers containing photosensitive Ag halide, a binder, a developer, and a colorless coupler which couples with the developer oxide to form diffusible dye (A), and CplnDye (I; Cp = coupler residue; L = divalent linkage; n = 0, 1; Dye = diffusible dye residue), the colorless coupler and I are contained in the different layers and the color of the diffusible dye A is different from that of the dye from I. The material gives clear images without color stain in rapid processing.

IT 334542-27-7

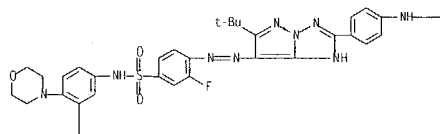
RL: DEV (Device component use); USES (Uses)  
(heat-developable photog. material containing two couplers giving diffusible dye with different colors)

RN 334542-27-7 CAPLUS

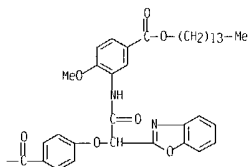
CN Benzoic acid, 3-[[[4-[[[4-[7-[[[4-[[[3-(aminosulfonyl)-4-(4-morpholinyl)phenyl]amino]sulfonyl]-2-fluorophenyl]azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]phenoxy]-2-benzoxazolylacetyl]amino]-4-methoxy-, tetradecyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 20 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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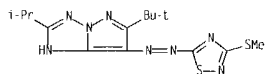


PAGE 2-A

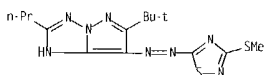


L4 ANSWER 21 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

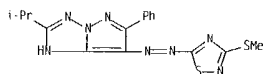
333303-80-3P 333303-82-5P 333303-83-6P  
 333303-84-7P 333303-85-8P 333303-86-9P  
 RL: IMF (Industrial manufacture): PRP (Properties): TEM (Technical or  
 engineered material use): PREP (Preparation): USES (Uses)  
 (colorants: manuf. of yellow colorants with good lightfastness and wet  
 heat resistance for use in thermal transfer printing and ink.)  
 RN 333303-67-6 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-2-(1-methylethyl)-  
 7-[[3-(methylthio)-1,2,4-thiadiazol-5-yl]azo]- (9C1) (CA INDEX NAME)



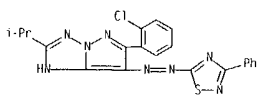
RN 333303-69-8 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-7-[[3-(  
 methylthio)-1,2,4-thiadiazol-5-yl]azo]-2-propyl- (9C1) (CA INDEX NAME)



RN 333303-71-2 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 2-(1-methylethyl)-7-[[3-(methylthio)-  
 1,2,4-thiadiazol-5-yl]azo]-6-phenyl- (9C1) (CA INDEX NAME)



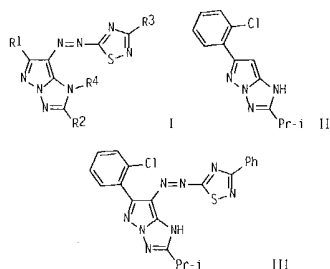
RN 333303-72-3 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(2-chlorophenyl)-2-(1-methylethyl)-7-  
 [[3-phenyl-1,2,4-thiadiazol-5-yl]azo]- (9C1) (CA INDEX NAME)



L4 ANSWER 21 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:254975 CAPLUS  
 DN 134:282126  
 TI Yellow colorants with good lightfastness and wet heat resistance  
 IN Mikoshiba, Takashi; Kamio, Takayoshi  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 27 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

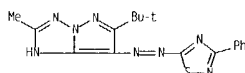
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001098179	A2	20010410	JP 1999-275697	19990929
US 6458194	B1	20021001	US 2000-676226	20000929
PRAI JP 1999-275697	A	19990929		
OS CASREACT 134:282126			MARPAT 134:282126	
GI				



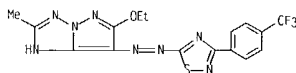
AB The colorants are of I-type compds. (R1-4 = H or other substituents) and  
 useful for thermal transfer printing colorants and inks. Thus, coupling of  
 diazotized 5-amino-3-phenyl-1,2,4-thiadiazole with II gave a yellow dye  
 III.  
 IT 333303-67-6P 333303-69-8P 333303-71-2P  
 333303-72-3P 333303-73-4P 333303-74-5P  
 333303-75-6P 333303-77-8P 333303-78-9P

L4 ANSWER 21 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

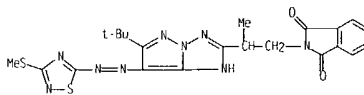
333303-73-4 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-2-methyl-7-[[3-(  
 phenyl-1,2,4-thiadiazol-5-yl]azo]- (9C1) (CA INDEX NAME)



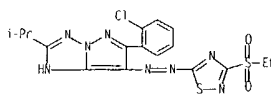
RN 333303-74-5 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-ethoxy-2-methyl-7-[[3-(4-(  
 trifluoromethyl)phenyl)-1,2,4-thiadiazol-5-yl]azo]- (9C1) (CA INDEX  
 NAME)



RN 333303-75-6 CAPLUS  
 CN 1H-Indole-1,3(2H)-dione, 2-[2-[6-(1,1-dimethylethyl)-7-[[3-(methylthio)-  
 1,2,4-thiadiazol-5-yl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]-  
 (9C1) (CA INDEX NAME)

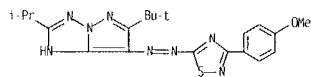


RN 333303-77-8 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(2-chlorophenyl)-7-[[3-(  
 ethylsulfonyl)-1,2,4-thiadiazol-5-yl]azo]-2-(1-methylethyl)- (9C1) (CA  
 INDEX NAME)

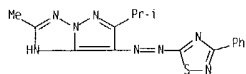


RN 333303-78-9 CAPLUS

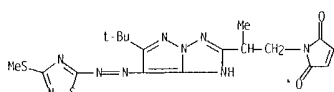
L4 ANSWER 21 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 6-(1.1-dimethylethyl)-7-[[3-(4-methoxyphenyl)-1.2.4-thiadiazol-5-yl]azo]-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



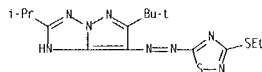
RN 333303-80-3 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 2-methyl-6-(1-methylethyl)-7-[[3-(phenyl)-1.2.4-thiadiazol-5-yl]azo]- (9C1) (CA INDEX NAME)



RN 333303-82-5 CAPLUS  
 CN 1H-Pyrrole-2,5-dione, 1-[2-[6-(1.1-dimethylethyl)-7-[[3-(methylthio)-1.2.4-thiadiazol-5-yl]azo]-1H-pyrazolo[1.5-b][1.2.4]triazol-2-yl]propyl]- (9C1) (CA INDEX NAME)



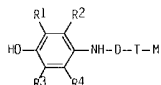
RN 333303-83-6 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 6-(1.1-dimethylethyl)-7-[[3-(ethylthio)-1.2.4-thiadiazol-5-yl]azo]-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



L4 ANSWER 22 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:180941 CAPLUS

DN 134:229657  
 TI Diffusion-transfer heat-developable silver halide photographic film  
 IN Mizukawa, Hiroki; Naruse, Hideaki  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 77 pp.  
 CODEN: JKKXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

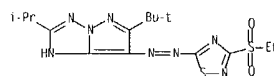
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001066745	A2	20010316	JP 1999-237613	19990824
PRA1 JP 1999-237613		19990824		
OS MARPAT 134:229657				
GI				



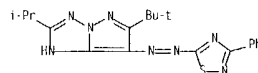
AB The photog. film contains CpLnDye (Cp = coupler; L = divalent linkage; n = 0, 1; Dye = diffusible dye residue) as a coupler and I (R1-4 = H, substituent; D = divalent group selected from CO, SO, SO2 PO; T = divalent linkage; M = nucleophilic group reactable with D when oxidized; R1 and R2, R3 and R4 may form a ring) or QWNRHS (Q = 5 to 7 membered ring bonds to NNNHR5 at C; R5 = carbamoyl, acyl, alkoxycarbonyl, aryloxy carbonyl, aryloxy carbonyl, sulfonyl, sulfamoyl) as a developer. The material gives high d. images with good discrimination by rapid processing.  
 IT 329745-73-5 329745-74-6 329745-75-7  
 RL: DEV (Device component use); USES (Uses)  
 (diffusion-transfer heat-developable silver halide photog. film containing coupler and developer)

RN 329745-73-5 CAPLUS  
 CN Benzenepropanamide, N-[2-chloro-5-[[[1-oxotetradecyl]amino]phenyl]-4-[[3-[[[4-[[[6-(1.1-dimethylethyl)-2-[4-[[[methylsulfonyl]amino]phenyl]-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl]azo]-3-fluorophenyl]sulfonyl]amino]phenoxy]-p-oxo- (9C1) (CA INDEX NAME)

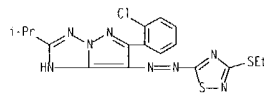
L4 ANSWER 21 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 RN 333303-84-7 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 6-(1.1-dimethylethyl)-7-[[3-(ethylsulfonyl)-1.2.4-thiadiazol-5-yl]azo]-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



RN 333303-85-8 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 6-(1.1-dimethylethyl)-2-(1-methylethyl)-7-[[3-(phenyl)-1.2.4-thiadiazol-5-yl]azo]- (9C1) (CA INDEX NAME)

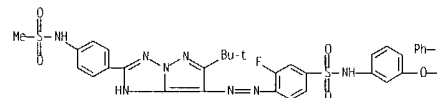


RN 333303-86-9 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 6-(2-chlorophenyl)-7-[[3-(ethylthio)-1.2.4-thiadiazol-5-yl]azo]-2-(1-methylethyl)- (9C1) (CA INDEX NAME)

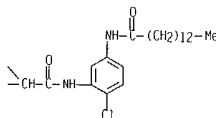


L4 ANSWER 22 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

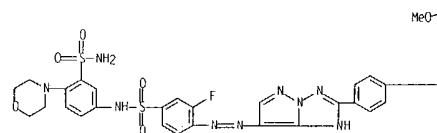


PAGE 1-B



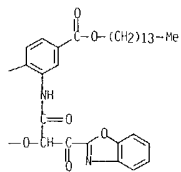
RN 329745-74-6 CAPLUS  
 CN Benzoic acid, 3-[[[2-[4-[7-[[4-[[[3-(aminosulfonyl)-4-(4-morpholinyl)phenyl]amino]sulfonyl]-2-fluorophenyl]azo]-1H-pyrazolo[1.5-b][1.2.4]triazol-2-yl]phenoxy]-3-(2-benzoxazolyl)-1.3-dioxopropyl]amino]-4-methoxy-, tetradecyl ester (9C1) (CA INDEX NAME)

PAGE 1-A



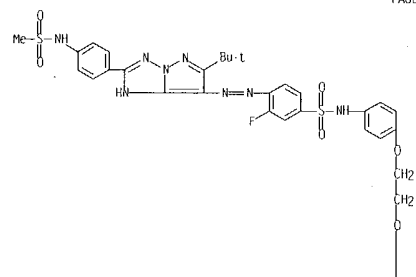
L4 ANSWER 22 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



RN 329745-75-7 CAPLUS  
 CN 2-Naphthalenecarboxamide, 4-[2-[4-[[[4-[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-3-fluorophenyl]sulfonyl]amino]phenoxy]ethoxy]-N-dodecyl-1-1-hydroxy- (9CI)- (CA INDEX NAME)

PAGE 1-A

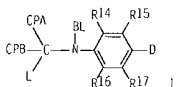


L4 ANSWER 23 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:715792 CAPLUS  
 DN 133:288626  
 TI Color development composition and recording material  
 IN Ishikawa, Shunichi; Nakamura, Takeki; Morita, Kensuke  
 PA Fujii Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 16 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000282022	A2	20001010	JP 1999-93429	19990331
PRAI	JP 1999-93429		19990331		
OS	MARPAT 133:288626				
GI					



AB The composition comprises a compound producing an acid by light exposure and heat and a color developer I (D = NR18R19; R18, R19 = H, substituent; R14-17 = H, substituent; R14 and R15, R15 and R18, R15 and R19, R16 and R17, R17 and R18, R17 and R19 may form ring; BL = block group, CONR20R201; R20, R201 = H, substituent; CPA, CPB = coupler forming group; L = H, dissociated group; L = dissociated group from BL by acid).

IT 300371-74-B  
 RL: PRP (Properties)

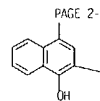
(color development composition and recording material)

RN 300371-74-B CAPLUS

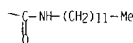
CN Carbanic acid, [6-(1,1-dimethylethyl)-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]]-[4-[ethyl[2-[(methylsulfonyl)amino]ethyl]amino]-2-methylphenyl]]-, 1,1-dimethylethyl ester (9CI)- (CA INDEX NAME)

L4 ANSWER 22 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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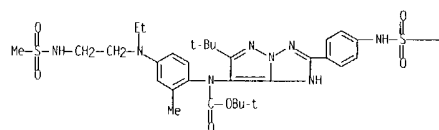


PAGE 2-B

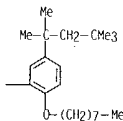


L4 ANSWER 23 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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L4 ANSWER 24 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:526831 CAPLUS  
 DN 133:151985  
 TI Pigment precursor for image formation  
 IN Takashim, Masanobu; Sato, Hiroshi; Matsumoto, Hirotsuka; Fukushima, Hirotsuka  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 52 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN, CNT 1

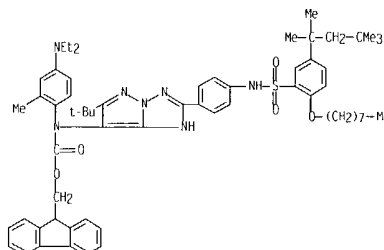
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000212464	A2	20000802	JP 1999-20091	19990128
	US 6528230	B1	20030304	US 2000-493111	20000128
PRAT	JP 1999-20091	A	19990128		
OS	WARPAT 133:151985				

AB The pigment precursor capable of changing color when contacting base compound has a structure Ar-N(L)-Cp, where Ar is an aromatic substituent, Cp is a color group, L is a protecting group. Thus a pigment precursor microcapsule made from (MeOC6H4)3B-Bu-N-Bu4 was mixed with a base emulsion from N-methyloctadecylamine and amide compds. and applied to a imaging forming layer, which was covered by a protective layer with surfactant, showing coloring concentration 2.7.

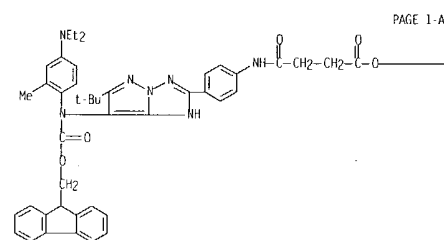
IT 287399-76-2P 287399-77-3P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (pigment precursor for image formation)

RN 287399-76-2 CAPLUS  
 CN Carbanic acid, [4-(diethylamino)-2-methylphenyl][6-(1,1-dimethylethyl)-2-[4-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-, 9H-fluoren-9-ylmethyl ester (9C1) (CA INDEX NAME)

L4 ANSWER 24 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 287399-77-3 CAPLUS  
 CN Butanoic acid, 4-[[[4-[7-[[4-(diethylamino)-2-methylphenyl][(9H-fluoren-9-ylmethoxy)carbonyl]amino]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]-4-oxo-, tetradecyl ester (9C1) (CA INDEX NAME)



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L4 ANSWER 24 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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—(CH<sub>2</sub>)<sub>13</sub>—Me

L4 ANSWER 25 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2000:166124 CAPLUS  
 DN 132:214726

TI Silver halide photographic material containing hydrazine derivative developer and image formation

IN Honda, Mari; Kita, Hiroshi  
 PA Konica Co., Japan  
 SO Jpn. Kokai Tokkyo Koho, 68 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000075452	A2	20000314	JP 1998-245147	19980831
PRAT	JP 1998-245147		19980831		

AB The title photog. material possesses, on a support, 21 photog. constitutive layers 21 of which contains a compound R11NNHXR12, R11NNHXR13, R11NNHXR14, R11NNHXR15, R11NNHXR16 or R11NNHXR17 (R11 = aryl, heterocyclic group; X = SO<sub>2</sub>, CO, COCO, CO<sub>2</sub>, CONR1, COXO<sub>2</sub>, COCONR2, SO<sub>2</sub>NR3; R1-3 = alkyl, alkenyl, alkynyl, aryl, heterocyclic group (these groups may be substituted); R12 = photog. useful group, R13 = image stabilizer residue; R14 = UV absorbent residue; R15 = color stain inhibitor residue; R16 = formalin-capturing agent residue; R17 = brightening agent residue). An imaging method is also claimed, in which the dye images formed by using the material are chelation-treated. The material containing a novel hydrazine developing agent is applicable to rapid processing and provides high quality images with improved storage stability by dipping in a metal chelating bath after development.

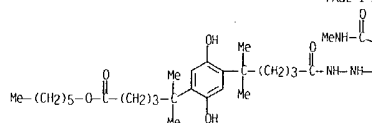
IT 260800-03-1  
 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. film containing hydrazine derivative developer)

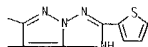
RN 260800-03-1 CAPLUS

CN 1,4-Benzenedipentanoic acid, 2,5-dihydroxy-6,6',delta',delta'-tetramethyl-, monohexyl ester, 2-[6-[(methylamino)carbonyl]-2-(2-thenyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]hydrazide (9C1) (CA INDEX NAME)

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L4 ANSWER 25 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
PAGE 1-B



L4 ANSWER 26 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999-545194 CAPLUS

DN 131.206897

TI Color photographic film, manufacture of color filter using the same, and color filter for display

IN Mizukawa, Hiroki

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 73 pp.

CODEN: JKKXAF

OT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11231481	A2	19990827	JP 1998-28943	19980210
PRAI	JP 1998-28943		19980210		

AB The color photog. film contains a yellow-colored cyan coupler Q1(TIME)n-L1m-(YDYE) [Q1 = cyan dye forming coupler residue; TIME = timing group; L1 = divalent connection group; YDYE = yellow dye residue; n, m = 0-3] or A1-N-N-R1 [A1 = cyan dye forming coupler residue; R1 = aryl, heterocycle], a magenta-colored cyan coupler Q2-(TIME)n-L2m-(MDYE) [Q2 = cyan dye forming coupler residue; TIME = timing group; L2 = divalent connection group; MDYE = magenta dye residue; m, n = 0-3] or A2-N-N-R2 [A2 = cyan dye forming coupler residue; R2 = aryl, heterocycle], and a yellow-colored magenta coupler Q3-(TIME)n-L3m-(YDYE) [Q3 = magenta dye forming coupler residue; TIME = timing group; L3 = divalent connection group; YDYE = yellow dye residue; n, m = 0-3] or A3-N-N-R3 [A3 = magenta dye forming coupler residue; R3 = aryl, heterocycle]. The excellent color filter is obtained easily by using the above colored couplers.

IT 240812-07-1

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

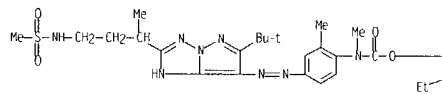
(yellow-colored cyan coupler in color photog. film for manufacturing color filter of display)

RN 240812-07-1 CAPLUS

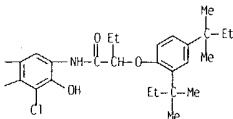
CN Carbamic acid, 4-[[[6-(1,1-dimethylethyl)-2-[1-methyl-3-[(methylsulfonyl)amino]propyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-2-methylphenyl]methyl]-5-[[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]-3-chloro-2-ethyl-4-hydroxyphenyl ester (9C1) (CA INDEX NAME)

L4 ANSWER 26 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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IT 240812-20-8 240812-21-9 240812-22-0

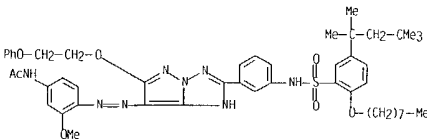
240812-23-1

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(yellow-colored magenta coupler in color photog. film for manufacturing color filter of display)

RN 240812-20-8 CAPLUS

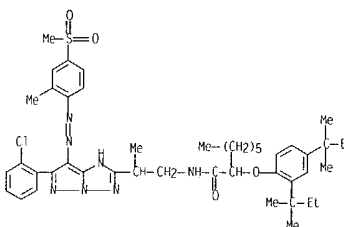
CN Acetamide, N-[3-methoxy-4-[[[2-[3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]phenyl]-6-(2-phenoxyethoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]phenyl]- (9C1) (CA INDEX NAME)



RN 240812-21-9 CAPLUS

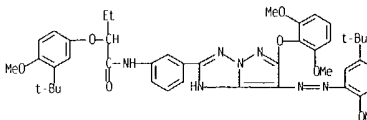
CN Octanamide, 2-[[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[2-[6-(2-chlorophenyl)-7-[[[2-methyl-4-(methylsulfonyl)phenyl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]- (9C1) (CA INDEX NAME)

L4 ANSWER 26 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



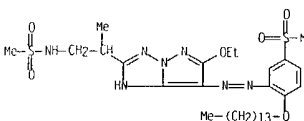
RN 240812-22-0 CAPLUS

CN Butanamide, N-[3-[6-(2,6-dimethoxyphenoxy)-7-[[[5-(1,1-dimethylethyl)-2-methoxyphenyl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-2-[3-(1,1-dimethylethyl)-4-methoxyphenoxy]- (9C1) (CA INDEX NAME)



RN 240812-23-1 CAPLUS

CN Methanesulfonamide, N-[2-[6-ethoxy-7-[[[5-(methylsulfonyl)-2-(tetradecyloxyphenyl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]- (9C1) (CA INDEX NAME)



L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:401531 CAPLUS

DN 131:49211

TI Oxidative hair dye preparations containing pyrazolo-azole derivatives

IN Vidal, Laurent; Maubru, Mireille

PA L'oreal, Fr.

SO Eur. Pat. Appl. 39 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN CNT 1

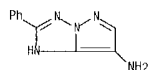
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1 EP 923929	A1	19990623	EP 1998-402939	19981125
EP 923929	B1	20040512		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
FR 2772379	A1	19990618	FR 1997-15947	19971216
FR 2772379	B1	20000211		
AT 266378	E	20040515	AT 1998-402939	19981125
CA 2255206	AA	19990616	CA 1998-2255206	19981215
JP 11263790	A2	19990928	JP 1998-356792	19981215
JP 3135536	B2	20010219		
US 2002007520	A1	20020124	US 1998-212578	19981216
US 6379397	B2	20020430		
US 2002152558	A1	20021024	US 2002-91492	20020307
PRA1 FR 1997-15947	A	19971216		
US 1998-212578	A3	19981216		

OS MARPAT 131:49211

AB The title compds. are prepared for use in oxidative hair dye compns. Thus, 1H-7-amino-3,6-dimethylpyrazolo[3,2-c]-1,2,4-triazole dihydrochloride (I) was prepared by hydrogenation of 1H-7-nitro-3,6-dimethylpyrazolo[3,2-c]-1,2,4-triazole over Pd/C in presence of a solution of ethanolic HCl. A hair dye preparation contained 1.0.672. resorcin 0.330. benzylic acid 2. PEG 3. ethanol 18. Oranix CG110 6. 20% ammonia 10. sodium metabisulfite 0.208. sequestrant q.s. and water q.s. 100 g. At the time of use the preparation is mixed with equal amount of 6.10-3 mol% ammonium persulfate and applied on the hair for 30 min. The hair is then rinsed, washed with a shampoo, and dried to obtain an iris color.

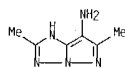
IT 227610-58-4 227610-59-5 227610-60-8  
227610-61-9 227610-62-0 227610-63-1  
227610-64-2 227610-65-3 227610-66-4  
227610-67-5 227610-68-6 227610-69-7  
227610-70-0 227610-71-1 227610-72-2  
227610-73-3 227610-74-4 227610-75-5  
227610-76-6 227610-77-7 227610-78-8  
227610-79-9 227610-81-3 227610-82-4  
227610-83-5 227610-84-6 227610-85-7

L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



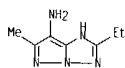
RN 227610-62-0 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 2,6-dimethyl- (9C1) (CA INDEX NAME)



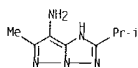
RN 227610-63-1 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 2-ethyl-6-methyl- (9C1) (CA INDEX NAME)



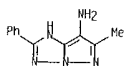
RN 227610-64-2 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 6-methyl-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



RN 227610-65-3 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 6-methyl-2-phenyl- (9C1) (CA INDEX NAME)



L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

227610-86-8 227610-87-9 227610-88-0

227610-89-1 227610-90-4 227610-91-5

227610-92-6 227610-93-7 227610-94-8

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227610-98-2 227610-99-3

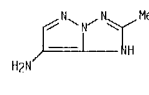
RL, BUU (Biological) use, unclassified); BIOL (Biological study); USES

(Uses)

(oxidative hair dye preps. contg. pyrazolo-azole derivs.)

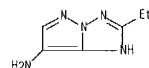
RN 227610-58-4 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 2-methyl- (9C1) (CA INDEX NAME)



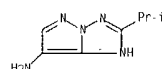
RN 227610-59-5 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 2-ethyl- (9C1) (CA INDEX NAME)



RN 227610-60-8 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 2-(1-methylethyl)- (9C1) (CA INDEX NAME)



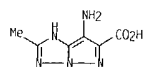
RN 227610-61-9 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 2-phenyl- (9C1) (CA INDEX NAME)

L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

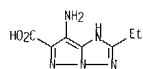
RN 227610-66-4 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole-6-carboxylic acid, 7-amino-2-methyl- (9C1) (CA INDEX NAME)



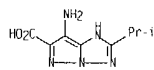
RN 227610-67-5 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole-6-carboxylic acid, 7-amino-2-ethyl- (9C1) (CA INDEX NAME)



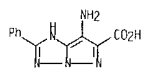
RN 227610-68-6 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole-6-carboxylic acid, 7-amino-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



RN 227610-69-7 CAPLUS

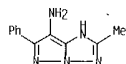
CN 1H-Pyrazolo[1,5-b][1,2,4]triazole-6-carboxylic acid, 7-amino-2-phenyl- (9C1) (CA INDEX NAME)



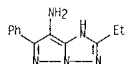
RN 227610-70-0 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazol-7-amine, 2-methyl-6-phenyl- (9C1) (CA INDEX NAME)

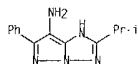
L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



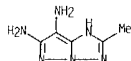
RN 227610-71-1 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 2-ethyl-6-phenyl- (9C1) (CA INDEX NAME)



RN 227610-72-2 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 2-(1-methylethyl)-6-phenyl- (9C1) (CA INDEX NAME)

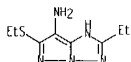


RN 227610-73-3 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-6,7-diamine, 2-methyl- (9C1) (CA INDEX NAME)

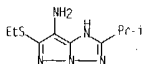


RN 227610-74-4 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-6,7-diamine, 2-ethyl- (9C1) (CA INDEX NAME)

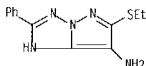
L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



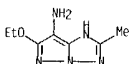
RN 227610-79-9 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 6-ethoxy-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



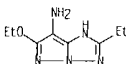
RN 227610-81-3 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 6-ethoxy-2-phenyl- (9C1) (CA INDEX NAME)



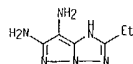
RN 227610-82-4 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 6-ethoxy-2-methyl- (9C1) (CA INDEX NAME)



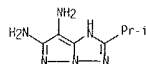
RN 227610-83-5 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 6-ethoxy-2-ethyl- (9C1) (CA INDEX NAME)



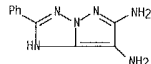
L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



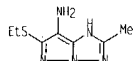
RN 227610-75-5 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-6,7-diamine, 2-(1-methylethyl)- (9C1) (CA INDEX NAME)



RN 227610-76-6 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-6,7-diamine, 2-phenyl- (9C1) (CA INDEX NAME)



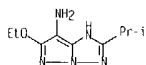
RN 227610-77-7 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-7-amine, 6-(ethylthio)-2-methyl- (9C1) (CA INDEX NAME)



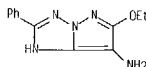
RN 227610-78-8 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-7-amine, 2-ethyl-6-(ethylthio)- (9C1) (CA INDEX NAME)

L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

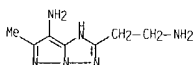
RN 227610-84-6 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 6-ethoxy-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



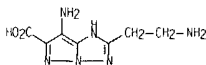
RN 227610-85-7 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 6-ethoxy-2-phenyl- (9C1) (CA INDEX NAME)



RN 227610-86-8 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanamine, 7-amino-6-methyl- (9C1) (CA INDEX NAME)

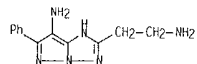


RN 227610-87-9 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-6-carboxylic acid, 7-amino-2-(2-aminoethyl)- (9C1) (CA INDEX NAME)

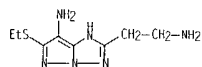


RN 227610-88-0 CAPLUS  
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanamine, 7-amino-6-phenyl- (9C1) (CA INDEX NAME)

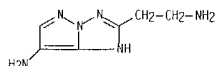
L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



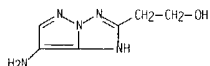
RN 227610-89-1 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanamine, 7-amino-6-(ethylthio)- (9C1) (CA INDEX NAME)



RN 227610-90-4 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanamine, 7-amino- (9C1) (CA INDEX NAME)

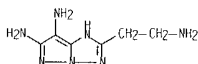


RN 227610-91-5 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanol, 7-amino- (9C1) (CA INDEX NAME)

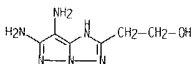


RN 227610-92-6 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanol, 7-amino-6-methyl- (9C1) (CA INDEX NAME)

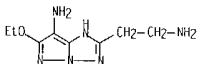
L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



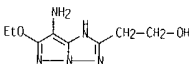
RN 227610-97-1 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanol, 6,7-diamino- (9C1) (CA INDEX NAME)



RN 227610-98-2 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanamine, 7-amino-6-ethoxy- (9C1) (CA INDEX NAME)

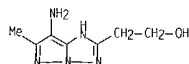


RN 227610-99-3 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanol, 7-amino-6-ethoxy- (9C1) (CA INDEX NAME)

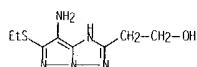


IT 227611-82-7P  
 RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (oxidative hair dye preps, containing pyrazolo-azole derivs.)  
 RN 227611-82-7 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-7-amine, 2,6-dimethyl-, monohydrochloride (9C1) (CA INDEX NAME)

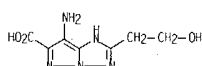
L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



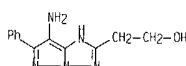
RN 227610-93-7 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanol, 7-amino-6-(ethylthio)- (9C1) (CA INDEX NAME)



RN 227610-94-8 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-6-carboxylic acid, 7-amino-2-(2-hydroxyethyl)- (9C1) (CA INDEX NAME)

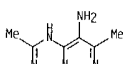


RN 227610-95-9 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-2-ethanol, 7-amino-6-phenyl- (9C1) (CA INDEX NAME)



RN 227610-96-0 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole-6,7-diamine, 2-(2-aminoethyl)- (9C1) (CA INDEX NAME)

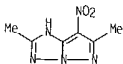
L4 ANSWER 27 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● HCl

IT 227611-84-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (oxidative hair dye preps, containing pyrazolo-azole derivs.)

RN 227611-84-9 CAPLUS  
 CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 2,6-dimethyl-7-nitro- (9C1) (CA INDEX NAME)



RE CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 28 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:157105 CAPLUS

DN 130:229952

TI Silver halide photographic material with dye-donating compound-containing layer and image formation using same

IN Taguchi, Toshiki

PA Fujif Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 40 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11055059	A2	19990305	JP 1997-244783	19970826
PRAI	JP 1997-244783		19970826		

AB The title material, possessing a Ag halide emulsion layer containing a photosensitive Ag halide, a binder, and a developing agent on a support, contains  $\geq 1$  non-diffusive dye-donating compound which is reduced to release a diffusive dye and  $\geq 1$  one which is oxidized to release a diffusive dye in the layer nearer than the emulsion layer to the support. An imaging method is also claimed, in which the 2 types of dye-donating compds. are reacted upon development and the resulting diffusive dyes are transferred onto a sheet to form an image. The material provides high quality images with improved discrimination and sharpness.

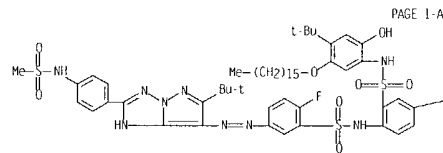
IT 221115-22-6 221115-27-1

RL: MOA (Modifier or additive use): TEM (Technical or engineered material use): USES (Uses)

(silver halide photog. material with antihalation layer containing dye-donating compound)

RN 221115-22-6 CAPLUS

CN Benzenesulfonamide, N-[2-[[[4-(1,1-dimethylethyl)-5-(hexadecyloxy)-2-hydroxyphenyl]amino]sulfonyl]-4-(2-methoxyethoxy)phenyl]-5-[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-2-fluoro- (9C1) (CA INDEX NAME)



L4 ANSWER 29 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:635377 CAPLUS

DN 129:317722

TI Anticlogging water-thinned ink-jet inks

IN Ooya, Hidenobu

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho. 31 pp.

CODEN: JKXXAF

DT Patent

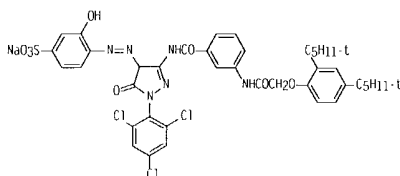
LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10259334	A2	19980929	JP 1997-67992	19970321
PRAI	JP 2004169045	A2	20040517	JP 2004-45607	20040223
PRAI	JP 1997-67992	A3	19970321		

OS MARPAT 129:317722

GI



AB The inks contain azo dyes bearing  $\geq 1$  sulfonic acid or salt group, characterized in that the aqueous solution of the dyes has a viscosity of  $\geq 2$  cP at 20° with an absorbance of 1000 at maximum absorption wavelength. Thus, an ink containing 1, diethylene glycol, and water gave prints showing good light and water resistance.

IT 214620-15-2

RL: PRP (Properties): TEM (Technical or engineered material use): USES (Uses)

(anticlogging light-resistant water-thinned ink-jet inks)

RN 214620-15-2 CAPLUS

CN Benzenesulfonic acid, 3-methyl-4-[[6-methyl-2-[1-methyl-2-[(1-oxohexadecylamino)ethyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-monopotassium salt (9C1) (CA INDEX NAME)

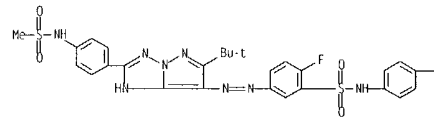
L4 ANSWER 28 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

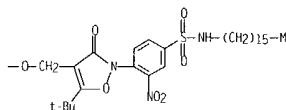
—O—CH<sub>2</sub>—CH<sub>2</sub>—OMe

RN 221115-27-1 CAPLUS

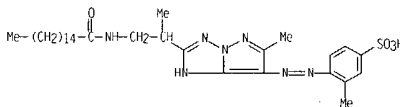
CN Benzenesulfonamide, N-[4-[[[5-(1,1-dimethylethyl)-2-[4-[(hexadecylamino)sulfonyl]-2-nitrophenyl]-2,3-dihydro-3-oxo-4-isoaxazolyl]methoxy]phenyl]-5-[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-2-fluoro- (9C1) (CA INDEX NAME)



PAGE 1-B



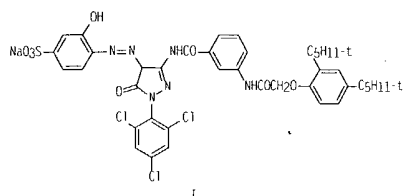
L4 ANSWER 29 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● K

L4 ANSWER 30 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1998:618512 CAPLUS  
 DN 129:303787  
 TI Anticlogging light- and water-resistant ink-jet inks  
 IN Ooya, Hidenobu  
 PA Konica Co., Japan  
 SO Jpn. Kokai Tokkyo Koho. 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10251572	A2	19980922	JP 1997-60849	19970314
PRAI JP 1997-60849		19970314		
GI				



AB The inks contain complexes of chelate dyes bearing sulfonic acid groups and C<sub>8</sub>-10 ballast groups. Thus, an ink contained I, CuSO<sub>4</sub>, isopropanol, and water.

IT 214424-81-40, cobalt complexes  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)  
 (anticlogging light- and water-resistant ink-jet inks containing dye complexes)

RN 214424-81-4 CAPLUS

CN Benzenesulfonic acid, 4-[[[2-[1-[[[dodecylsulfonyl]amino]methyl]propyl]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-3-hydroxy-, monopotassium salt (9CI) (CA INDEX NAME)

L4 ANSWER 31 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1998:76290 CAPLUS  
 DN 128:198657  
 TI Metal complex pigments and material and method for thermal-transfer imaging  
 IN Tanaka, Tatsuo; Honda, Mari; Nakayama, Yoriko; Komamura, Tawara  
 PA Konica Co., Japan  
 SO Jpn. Kokai Tokkyo Koho. 25 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

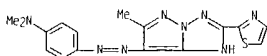
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10030061	A2	19980203	JP 1996-186195	19960716
PRAI JP 1996-186195		19960716		

AB The pigments are M(X<sub>1</sub>-L1(L2-L3)mY1)n1 [X<sub>1</sub> = ≥2 coordinate bond-forming atomic group; Y1 = aromatic hydrocarbonyl, 5- or 6-membered heterocyclyl; L4: Y2 = N-containing 5- or 6-membered heterocyclyl; L1, L4 = (substituted) CH; N: L2, L3 = (substituted) CH; M = metal ion; m = 0-3; n1 = 1-3]. The pigments provide images with fastness and are useful for color filters, thermal-transfer printing, ink-jet printing, color (electro)photo., etc.

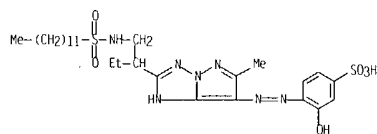
IT 203524-83-80, nickel complexes  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (metal-methine or -azo dye complexes for thermal-transfer imaging)

RN 203524-83-8 CAPLUS

CN Benzenamine, N,N-dimethyl-4-[[[6-methyl-2-(2-thiazolyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]- (9CI) (CA INDEX NAME)



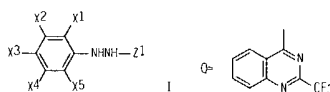
L4 ANSWER 30 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● K

L4 ANSWER 32 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1997:491463 CAPLUS  
 DN 127:110288  
 TI Manufacture of azo compounds in high yields in safety  
 IN Takeuchi, Kiyoshi; Nakamura, Takenare  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho. 59 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09151331	A2	19970610	JP 1995-334203	19951130
US 5889163	A	19990330	US 1996-756913	19961126
PRAI JP 1995-334203		19951130		
OS CASREACT 127:110288			MARPAT 127:110288	
GI				



AB The title process involves coupling of I and R3NHNH2 in the presence of an oxidizing agent [Z1, Z2 = acyl, carbanoyl, alkoxycarbonyl, aryloxy carbonyl; X1-5 = H, substituent, with sum of Hammett substituent constant of X1, X3 and X5 and that of X2 and X4 being above 0.80 but below 3.80; R3 = heterocyclic group]. ON: NCH(Bz)CONHC6H3(OMe)CO2C16H33-2.4 was prepared by reaction 2.5-(tert-C5H11)2C6H3O(CH2)3NHC(=O)NHCO and BzCH(OC6H4CN-p)CONHC6H3(OMe)CO2C16H33-2.4 in the presence of Ag2O and N-ethyl-diisopropylamine.

IT 192188-23-1P

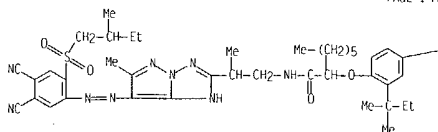
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (manufacture of azo compds. in high yields in safety)

RN 192188-23-1 CAPLUS

CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[2-[7-[[4,5-dicyano-2-[(2-methylbutyl)sulfonyl]phenyl]azo]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 32 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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PAGE 1-B



L4 ANSWER 33 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1997-223406 CAPLUS

DN 126-218489

TI Heat-developable silver halide color photographic material with excellent color reproducibility

IN Sawada, Satoru

PA Fuji Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho. 28 pp.

CODEN: JKKXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09015804	A2	19970117	JP 1995-187653	19950703
PRA1 JP 1995-187653		19950703		

AB The pos.-working photog. material, containing diffusion-resistant compds. (A) releasing dyes upon reduction, and 0.05-1.0 mol% (vs. A) other diffusion-resistant compds. releasing dyes upon oxidation. The material shows good storage stability and improved background whiteness.

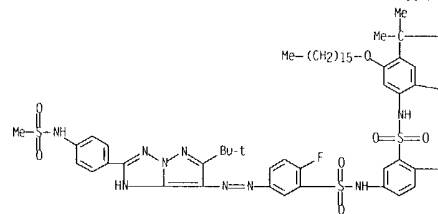
IT 188011-65-6

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)  
(dye-releasing agent; heat-developable silver halide color photog. film with excellent color reproducibility)

RN 180011-65-6 CAPLUS

CN Benzenesulfonamide, 5-[[6-[(1,1-dimethylethyl)-2-[[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-2-fluoro-N-[3-[[[5-(hexadecyloxy)-2-hydroxy-4-(1,1,3,3-tetramethylbutyl)phenyl]amino]sulfonyl]-4-(4-morpholinyl)phenyl]- (9CI) (CA INDEX NAME)

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L4 ANSWER 34 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



L4 ANSWER 34 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1996-73778 CAPLUS

DN 124-216136

TI Thermal-transfer recording material containing polymeric mordant

IN Yokoyama, Shigeki; Tsukahara, Jiro; Tateishi, Tomoyoshi

PA Fuji Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho. 17 pp.

CODEN: JKKXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07304273	A2	19951121	JP 1994-97444	19940511
PRA1 JP 1994-97444		19940511		

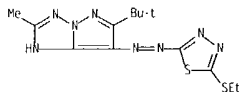
AB The recording material comprises (A) a dye-donating material and (B) an image-receptor material comprising a support coated with an image-receptor layer containing a polymeric mordant with structure CH2CR1XLR2R3 (R1 = H, C1-4 alkyl; R2, R3 = alkyl, cycloalkyl; X = bivalent group; L = propylene). The material gives high-d. images.

IT 168123-57-7

RL: DEV (Device component use); USES (Uses)  
(dye-donating compound; thermal-transfer recording material containing polymeric mordant)

RN 168123-57-7 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-7-[[5-(ethylthio)-1,3,4-thiadiazol-2-yl]azo]-2-methyl- (9CI) (CA INDEX NAME)

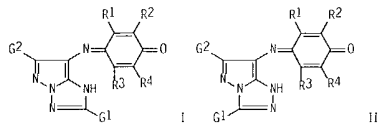




L4 ANSWER 35 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1995:890611 CAPLUS  
 DN 124:71458  
 T1 Diffusion-transfer silver halide photographic material containing  
 indophenol dye-releasing compound  
 IN Nakamura, Takemare  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn, Kokai Tokkyo Koho, 42 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07219178	A2	19950818	JP 1994-30797	19940203
JP 1994-30797		19940203		

P1  
 PRA1  
 G1

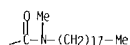


AB The material contains (Dye-X)qY (Dye = I, II; X = bond, linking group; Y = group giving diffusivity difference of dye component; R1-4 = H, cyano, carboxyl, sulfo, halo, alkyl, aryl, heterocyclic, acyl, sulfonyl alkoxy, etc.; G1, G2 = group with Hammett's  $\sigma$  para value  $\geq 0.3$  and  $\sum \sigma \geq 0.3$ ;  $\geq 1$  R and G bond to X; q = 1, 2). The material gives clear color photog. image with good lightfastness.

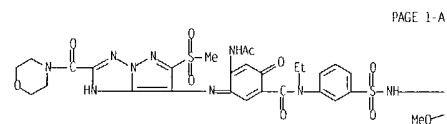
IT 172027-35-9 172027-36-0 172027-38-2  
 172027-39-3 172027-40-6 172027-42-8  
 RL: DEV (Device component use); USES (Uses)  
 (diffusion-transfer Ag halide photog. material containing indophenol dye-releasing compound)

RN 172027-35-9 CAPLUS  
 CN Benzamide, 4-[4-[[[4-[[[5-chloro-3-[[6-(methylsulfonyl)-2-[3-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]amino]-6-oxo-1,4-cyclohexadien-1-yl]sulfonyl]ethylamino]phenyl]sulfonyl]amino]phenoxy]methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-isoxazoliyl]-N-methyl-3-nitro-N-octadecyl- (9C1) (CA INDEX NAME)

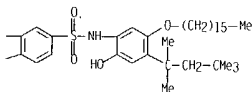
L4 ANSWER 35 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 172027-38-2 CAPLUS  
 CN 1,4-Cyclohexadiene-1-carboxamide, 4-(acetilamino)-N-ethyl-N-[3-[[[5-[[[5-(hexadecyloxy)-2-hydroxy-4-(1,1,3,3-tetramethylbutyl)phenyl]amino]sulfonyl]-2-methoxyphenyl]amino]sulfonyl]phenyl]-3-[[[6-(methylsulfonyl)-2-(4-morpholinylcarbonyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]imino]-6-oxo- (9C1) (CA INDEX NAME)

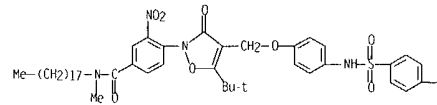


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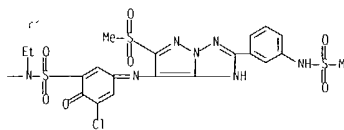


RN 172027-39-3 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole-6-sulfonamide, 2-(2-chlorophenyl)-7-[[3,5-dichloro-4-oxo-2,5-cyclohexadien-1-ylidene]amino]-N-[3-[[[5-(hexadecyloxy)-2-hydroxy-4-(1,1,3,3-tetramethylbutyl)phenyl]amino]sulfonyl]-1,4-methoxyphenyl]- (9C1) (CA INDEX NAME)

L4 ANSWER 35 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
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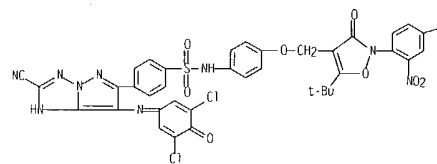


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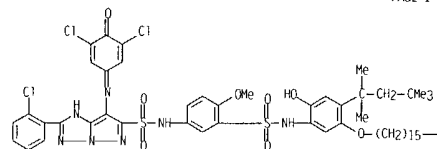
RN 172027-36-0 CAPLUS  
 CN Benzamide, 4-[4-[[[4-[[[2-cyano-7-[(3,5-dichloro-4-oxo-2,5-cyclohexadien-1-ylidene)amino]-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]phenyl]sulfonyl]amino]phenoxy]methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-isoxazoliyl]-N-methyl-3-nitro-N-octadecyl- (9C1) (CA INDEX NAME)

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L4 ANSWER 35 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

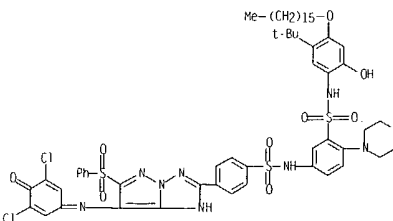
PAGE 1-A



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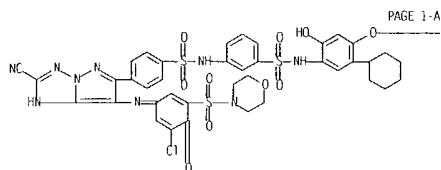
—Me

RN 172027-40-6 CAPLUS  
 CN Benzenesulfonamide, 5-[[[4-[7-[(3,5-dichloro-4-oxo-2,5-cyclohexadien-1-ylidene)amino]-6-(phenylsulfonyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]sulfonyl]amino]-N-[5-(1,1-dimethylethyl)-4-(hexadecyloxy)-2-hydroxyphenyl]-2-(4-morpholinyl)- (9C1) (CA INDEX NAME)



RN 172027-42-8 CAPLUS  
 CN Benzenesulfonamide, 3-[[[4-[7-[[3-chloro-5-(4-morpholinylsulfonyl)-4-oxo-

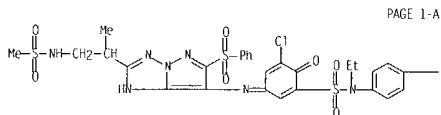
L4 ANSWER 35 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 2,5-cyclohexadien-1-ylidene]amino]-2-cyano-1H-pyrazolo[1,5-  
 b][1,2,4]triazol-6-yl]phenyl)sulfonyl]amino]-N-[5-cyclohexyl-4-  
 (hexadecyloxy)-2-hydroxyphenyl]- (9C1) (CA INDEX NAME)



— (CH<sub>2</sub>)<sub>15</sub>—Me

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IT 172027-34-BP  
 RL: DEV (Device component use): PMU (Preparation, unclassified): PREP (Preparation):  
 (Preparation): USES (Uses)  
 (diffusion-transfer Ag halide photog. material containing indophenol  
 dye-releasing compound)  
 RN 172027-34-8 CAPLUS  
 CN Benzamide, 4-[4-[[[4-[[[5-chloro-3-[[2-[1-methyl-2-  
 [(methylsulfonyl)amino]ethyl]-6-(phenylsulfonyl)-1H-pyrazolo[1,5-  
 b][1,2,4]triazol-7-yl]imino]-6-oxo-1,4-cyclohexadien-1-  
 yl]sulfonyl]ethylamino]phenyl]sulfonyl]amino]phenoxy]methyl]-5-(1,1-  
 dimethylethyl)-3-oxo-2(3H)-isoxazolyl]-N-methyl-3-nitro-N-octadecyl- (9C1)  
 (CA INDEX NAME)

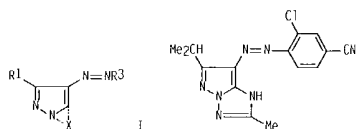


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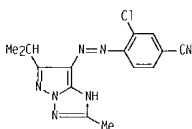
L4 ANSWER 36 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1995:759213 CAPLUS  
 DN 124:41439  
 TI Thermal-transfer recording materials providing durable and high color  
 quality image  
 IN Kamio, Takayoshi; Tateishi, Tomoyoshi  
 PA Fujii Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 26 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1  

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1 JP 07125462	A2	19950516	JP 1993-273808	19931101
PRA1 JP 1993-273808		19931101		

 GI



I



II

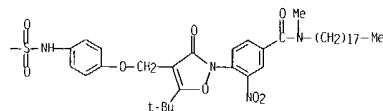
AB The materials comprise a support coated with a dye-donating layer containing a  
 heat-transferable dye I [R1 = H, substituent; R3 = (substituted) aromatic  
 group, heterocycle; X = atoms required to form a 5-membered ring]  
 and a support coated with a receptor layer containing a dye-receptive compound  
 of a basic substance and/or a mordant. The materials using a  
 thermal-transfer sheet containing II and a receptor sheet containing AEA  
 [amino-containing poly(vinyl acetal) resin] provide high-quality images with  
 high d. and sharpness and good storage stability.

IT 168123-50-0 168123-52-2 168123-53-3  
 168123-54-4 168123-55-5 168123-57-7  
 168123-58-8 168123-59-9  
 RL: DEV (Device component use): USES (Uses)  
 (dye: thermal-transfer recording materials containing pyrazoloazole azo dye  
 for durable and high-quality image)

RN 168123-50-0 CAPLUS  
 CN Benzonitrile, 3-chloro-4-[[2-methyl-6-(1-methylethyl)-1H-pyrazolo[1,5-  
 b][1,2,4]triazol-7-yl]azo]- (9C1) (CA INDEX NAME)

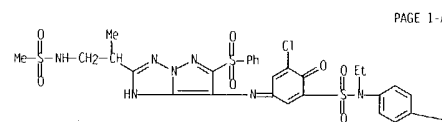
L4 ANSWER 35 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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IT 172027-44-0P  
 RL: PMU (Preparation, unclassified): RCT (Reactant): PREP (Preparation):  
 RACT (Reactant or reagent)  
 (in azo dye preparation)

RN 172027-44-0 CAPLUS  
 CN Benzenesulfonic acid, 4-[[[5-chloro-3-[[2-[1-methyl-2-  
 [(methylsulfonyl)amino]ethyl]-6-(phenylsulfonyl)-1H-pyrazolo[1,5-  
 b][1,2,4]triazol-7-yl]imino]-6-oxo-1,4-cyclohexadien-1-  
 yl]sulfonyl]ethylamino]- (9C1) (CA INDEX NAME)

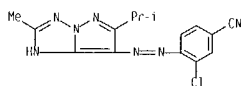


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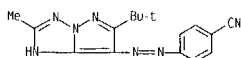
PAGE 1-B

—SO<sub>3</sub>H

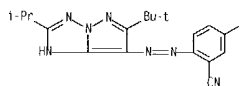
L4 ANSWER 36 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



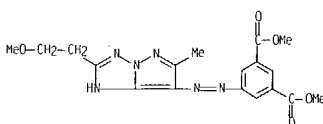
RN 168123-52-2 CAPLUS  
 CN Benzonitrile, 4-[[[6-(1,1-dimethylethyl)-2-methyl-1H-pyrazolo[1,5-  
 b][1,2,4]triazol-7-yl]azo]- (9C1) (CA INDEX NAME)



RN 168123-53-3 CAPLUS  
 CN 1,3-Benzenedicarbonitrile, 4-[[[6-(1,1-dimethylethyl)-2-(1-methylethyl)-1H-  
 pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]- (9C1) (CA INDEX NAME)

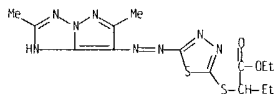


RN 168123-54-4 CAPLUS  
 CN 1,3-Benzenedicarboxylic acid, 5-[[[2-(2-methoxyethyl)-6-methyl-1H-  
 pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-, dimethyl ester (9C1) (CA INDEX  
 NAME)



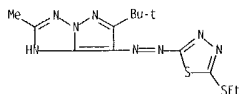
RN 168123-55-5 CAPLUS  
 CN Butanoic acid, 2-[[[5-[[[2,6-dimethyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-  
 yl]azo]-1,3,4-thiadiazol-2-yl]thio]-, ethyl ester (9C1) (CA INDEX NAME)

L4 ANSWER 36 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



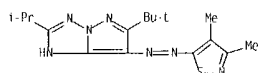
RN 168123-57-7 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-7-[[5-(ethylthio)-1,3,4-thiadiazol-2-yl]azo]-2-methyl- (9C1) (CA INDEX NAME)



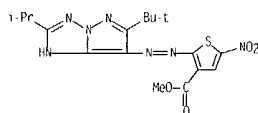
RN 168123-58-8 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-7-[(3,4-dimethyl-5-isothiazolyl)azo]-2-(1-methylethyl)- (9C1) (CA INDEX NAME)



RN 168123-59-9 CAPLUS

CN 3-Thiophenecarboxylic acid, 2-[[6-(1,1-dimethylethyl)-2-(1-methylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-5-nitro-, methyl ester (9C1) (CA INDEX NAME)



L4 ANSWER 37 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:748840 CAPLUS

DN 123:156326

TI Diffusion-transfer photographic material

IN Watanabe, Katsuyuki; Yamaguchi, Nobuko; Sato, Kozo

PA Fujii Photo Film Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 63 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07152134	A2	19950616	JP 1993-320861	19931129
	JP 3227040	B2	20011112		
PRAI	JP 1993-320861		19931129		

AB A diffusion-transfer photog. material for producing black-and-white pictures contains a dye-providing material capable of releasing a diffusible black dye containing  $\geq 1$  OH, NH, or CO<sub>2</sub>H group having a pKa value of  $\leq 6.0$  reversibly in response to a latent image in an exposed silver halide emulsion layer.

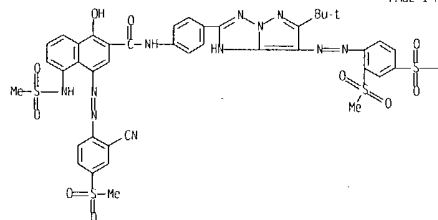
IT 166659-85-4

RL: TEM (Technical or engineered material use); USES (Uses)  
(black dye-releasing agent for diffusion-transfer photog. materials)

RN 166659-85-4 CAPLUS

CN 2-Naphthalenecarboxamide, 4-[[2-cyano-4-(methylsulfonyl)phenyl]azo]-N-[4-[6-(1,1-dimethylethyl)-7-[[4-[[[4-[5-(1,1-dimethylethyl)-2-[4-[(hexadecylamino)carbonyl]-2-nitrophenyl]-2,3-dihydro-3-oxo-4-isoaxazolyl]methoxy]phenyl]amino]sulfonyl]-2-(methylsulfonyl)phenyl]azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]-1-hydroxy-5-[(methylsulfonyl)amino]- (9C1) (CA INDEX NAME)

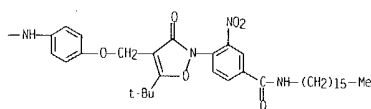
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L4 ANSWER 36 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 37 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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IT 166659-91-2P 166659-92-3P

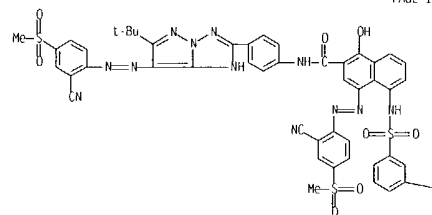
RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation and reaction in preparing black dye-releasing agent for diffusion-transfer photog. materials)

RN 166659-91-2 CAPLUS

CN Benzenesulfonic acid, 3-[[[8-[[2-cyano-4-(methylsulfonyl)phenyl]azo]-6-[[[4-[7-[[2-cyano-4-(methylsulfonyl)phenyl]azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]carbonyl]-5-hydroxy-1-naphthalenyl]amino]sulfonyl]-, monosodium salt (9C1) (CA INDEX NAME)

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● Na

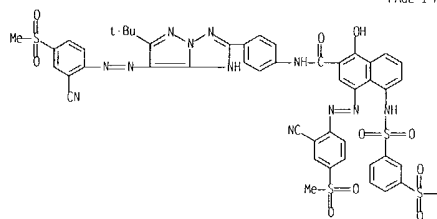
L4 ANSWER 37 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

~SO<sub>3</sub>H

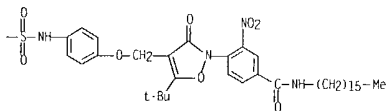
RN 166659-92-3 CAPLUS  
 CN Benzenesulfonyl chloride, 3-[[[8-[[[2-cyano-4-(methylsulfonyl)phenyl]azo]-6-[[[4-[7-[[[2-cyano-4-(methylsulfonyl)phenyl]azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]]phenyl]amino]carbonyl]-5-hydroxy-1-naphthalenyl]amino]sulfonyl]- (9CI) (CA INDEX NAME)

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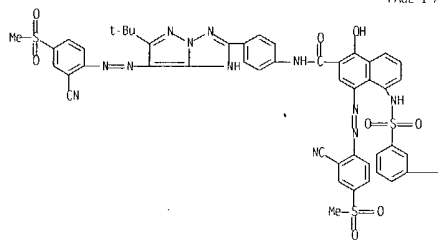
L4 ANSWER 37 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



RN 166659-86-5 CAPLUS  
 CN 2-Naphthalenecarboxamide, 4-[[[2-cyano-4-(methylsulfonyl)phenyl]azo]-N-[4-[7-[[[2-cyano-4-(methylsulfonyl)phenyl]azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]]phenyl]-5-[[[3-[[[5-(hexadecyloxy)-2-hydroxy-4-(1,1,3,3-tetramethylbutyl)phenyl]amino]sulfonyl]phenyl]sulfonyl]amino]-1-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



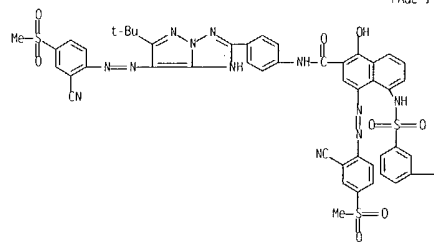
L4 ANSWER 37 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

~C1

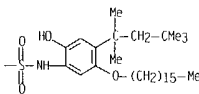
IT 166659-84-3P 166659-86-5P  
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (preparation and use as black dye-releasing agent for diffusion-transfer photog. materials)  
 RN 166659-84-3 CAPLUS  
 CN 2-Naphthalenecarboxamide, 4-[[[2-cyano-4-(methylsulfonyl)phenyl]azo]-N-[4-[7-[[[2-cyano-4-(methylsulfonyl)phenyl]azo]-6-(1,1-dimethylethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]]phenyl]-5-[[[3-[[[5-(1,1-dimethylethyl)-2-[4-[(hexadecylamino)carbonyl]-2-nitrophenyl]-2,3-dihydro-3-oxo-4-isoxazolyl]methoxy]phenyl]amino]sulfonyl]phenyl]sulfonyl]amino]-1-hydroxy- (9CI) (CA INDEX NAME)

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L4 ANSWER 37 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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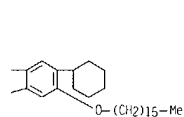
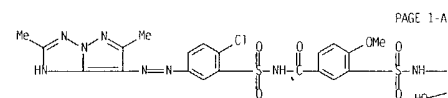
L4 ANSWER 38 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1995:742793 CAPLUS  
 DN 123:127476  
 TI Silver halide diffusion-transfer photographic material  
 IN Mikoshiba, Takashi; Naruse, Hideaki  
 PA Fuji Photo Film Co Ltd, Japan  
 SO Jpn. Kokai Tokkyo Koho, 37 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07120901	A2	19950512	JP 1993-287229	19931025
PRAI JP 1993-287229		19931025		

AB The Ag halide photog. material comprises a compound represented by (Dye-X)<sub>q</sub>-Y (Dye = CONHCOR1, SO2NHCOR1, SO2NHSO2R1; X = bond, divalent bonding group; Y = group releasing Dye upon reaction with Ag halide; R1 = alkyl, aryl; q = 1, 2). The photog. material gives a high transfer speed for dyes and excellent image sharpness.

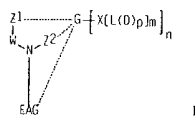
IT 166524-01-2  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (silver halide diffusion-transfer photog. material)

RN 166524-01-2 CAPLUS  
 CN Benzamide, N-[[[2-chloro-5-[(2,6-dimethyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl)azo]phenyl]sulfonyl]-3-[[[5-cyclohexyl-4-(hexadecyloxy)-2-hydroxyphenyl]amino]sulfonyl]-4-methoxy- (9C1) (CA INDEX NAME)



L4 ANSWER 39 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1995:494417 CAPLUS  
 DN 122:251958  
 TI Silver halide light-sensitive material.  
 IN Matsuda, Naoto; Yamada, Makoto; Ono, Michio; Ishiwata, Yasuhiro; Uchida, Osamu  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Eur. Pat. Appl., 78 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN CNT 2

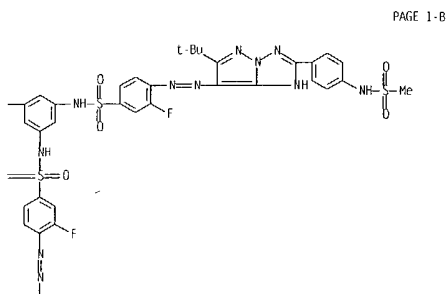
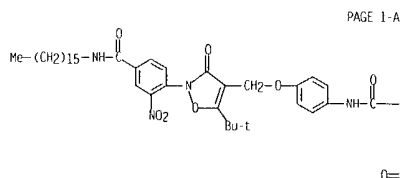
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 620490	A1	19941019	EP 1994-105812	19940414
EP 620490	B1	19990901		
R: DE, FR, GB				
JP 06347968	A2	19941222	JP 1994-70202	19940316
US 5543279	A	19960806	US 1994-227381	19940414
US 5585231	A	19961217	US 1995-439253	19950511
US 6127088	A	20001003	US 1996-733719	19961016
PRAI JP 1993-109830	A	19930414		
JP 1994-70202	A	19940316		
JP 1993-109811	A	19930414		
JP 1994-70192	A	19940316		
US 1994-227382	B3	19940414		
US 1996-603091	B1	19960220		
OS MARPAT 122.251958				
GI				



AB A Ag halide light-sensitive material contains I [EAG = electron attracting group; W = O, S, NR1 (R1 = alkyl, aryl); Z1, Z2 = single bond, substituent; Z1 and Z2 may combine to form a ring; p = 2; m = 2; G = group such that it can combine with any of Z1, Z2 or EAG and cleaved after EAG receives an electron; X = alkyl, aryl, group obtained by removing m H from a heterocyclic group; L = group combining X with D; D = photog. useful group; m(L(D)p)m may be same or different; when n = 2 n(X(L(D)p)m) may be same or different; when p is 2 pD may be same or different; z1 of the broken lines represent a

L4 ANSWER 38 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 39 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 bond]. The Ag halide light-sensitive material has a small fluctuation in a sensitivity even when the processing temp. changes and has an improved color reprodn. and an excellent discrimination and can achieve low Dmin and high Dmax.  
 IT 162208-61-9 162315-67-5 162315-68-6  
 RL: DEV (Device component use); USES (Uses)  
 (diffusible photog. dye providing compound)  
 RN 162208-61-9 CAPLUS  
 CN Benzamide, 4-[[4-[[[3,5-bis[[[4-[[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-3-fluorophenyl]sulfonyl]amino]benzoyl]amino]phenoxy]methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-isoxazolyl]-N-hexadecyl-3-nitro- (9C1) (CA INDEX NAME)

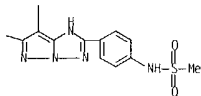


L4 ANSWER 39 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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t-Bu

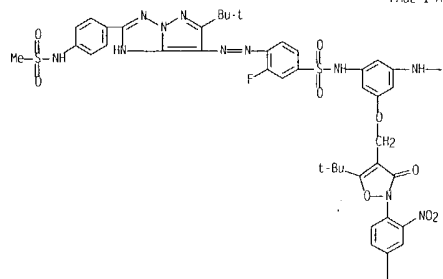
PAGE 2-B



RN 162315-67-5 CAPLUS

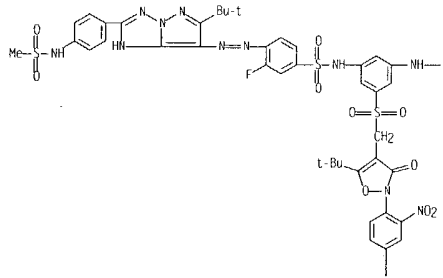
CN Benzamide, 4-[5-(1,1-dimethylethyl)-4-[[[3,5-bis[[[4-[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-3-fluorophenyl]sulfonyl]amino]phenoxy]methyl]-3-oxo-2(3H)-isoxazoly]]-N-hexadecyl-3-nitro- (9CI) (CA INDEX NAME)

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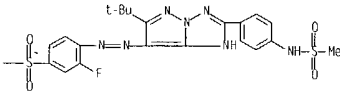


L4 ANSWER 39 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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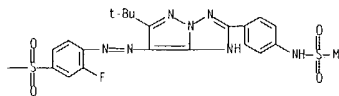


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-(CH<sub>2</sub>)<sub>15</sub>-Me

L4 ANSWER 39 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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PAGE 2-B

-(CH<sub>2</sub>)<sub>15</sub>-Me

RN 162315-68-6 CAPLUS

CN Benzamide, 4-[5-(1,1-dimethylethyl)-4-[[[3,5-bis[[[4-[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-3-fluorophenyl]sulfonyl]amino]phenyl]sulfonyl]methyl]-3-oxo-2(3H)-isoxazoly]]-N-hexadecyl-3-nitro- (9CI) (CA INDEX NAME)

L4 ANSWER 40 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:484542 CAPLUS

DN 122:277979

TI Heat developable color light-sensitive material.

IN Yamada, Makoto; Matsuda, Naoto; Ishiwata, Yasuhiro; Uchida, Osamu; Ono, Michio

PA Fuji Photo Film Co., Ltd., Japan

SO Eur. Pat. Appl., 119 pp.

CODEN: EPXXGW

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 620491	A1	19941019	EP 1994-105816	19940414
EP 620491	B1	19991215		
R: DE, FR, GB				
JP 06301180	A2	19941028	JP 1993-109811	19930414
JP 06347967	A2	19941222	JP 1994-70192	19940316
JP 3434563	B2	20030811		
EP 903633	A1	19990324	EP 1998-117936	19940414
EP 903633	B1	20020724		
R: DE, FR, GB				
US 5585231	A	19961217	US 1995-439253	19950511
US 6127088	A	20001003	US 1996-733719	19961016
PRA1 JP 1993-109811	A	19930414		
JP 1993-109830	A	19930414		
JP 1994-70192	A	19940316		
EP 1994-105816	A3	19940414		
US 1994-227382	B3	19940414		
US 1996-603091	B1	19960220		

AB A heat developable color light-sensitive material contains at least light-sensitive Ag halide, a binder, and a dye-providing compound on a support, where  $\geq 1$  of the compds. represented by formula [(Dye)p-X]q-r or Y-(G-X)-(L-(Dye)p)m)n [Dye = 1: Y = group capable of differentiating a diffusibility of a dye component corresponding or inversely corresponding with light-sensitive Ag halide having an image-wise latent image; X = bond or a linkage group; p  $\geq 1$ ; q = 1, 2; when p is  $\geq 2$  or q is 2 all of Dye or (Dye)p-X may be same or different; r1 = H, halogen, OH, CN, NO<sub>2</sub>, carboxyl, alkyl, aralkyl, cycloalkyl, aryl, heterocyclyl, alkoxy, aryloxy, amino, acylamino, sulfonylamino, acyl, sulfonyl, carbamoyl, ureido, alkylthio, arylthio; R<sub>2</sub>, R<sub>3</sub> = R1 except H; m, n = 0-5; Dye and X may be bonded via any one of R1-R3; G = linkage group or timing group; X' = benzene ring, naphthalene ring heterocyclic ring, alkyl or cycloalkyl condensed with a ring system where  $\geq 1$  C is replaced by O] is contained as the above dye-providing compound, and the amount of the above binder is 5 g/m<sup>2</sup> or less. The heat developable color light-sensitive material provides an excellent discrimination of an image and is less susceptible to an influence by a fluctuation in a development processing condition.

IT 162208-61-9 162208-66-4 162208-71-1

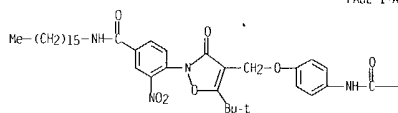
RL: DEV (Device component use); MOA (Modifier or additive use); USES

L4 ANSWER 40 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
(Uses)

RN 162208-61-9 CAPLUS

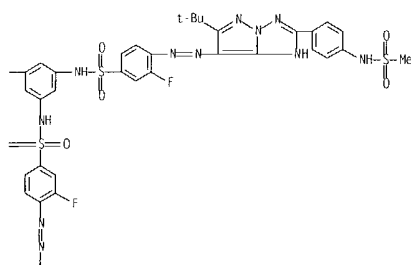
CN Benzamide, 4-[4-[[[3,5-bis[[[4-[[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-3-fluorophenyl]sulfonyl]amino]benzoyl]amino]phenoxy]methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-isoxazolyl]-N-hexadecyl-3-nitro- (9CI) (CA INDEX NAME)

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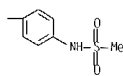
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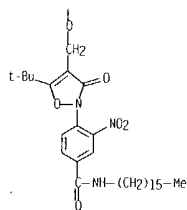


L4 ANSWER 40 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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RN 162208-71-1 CAPLUS

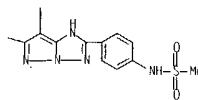
CN Benzamide, N-[[[5-(1,1-dimethylethyl)-2-[4-[(hexadecylamino)carbonyl]-2-nitrophenyl]-2,3-dihydro-3-oxo-4-isoxazolyl]methoxy]-3,5-bis[[[4-[[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-3-fluorophenyl]sulfonyl]amino]-N-methyl- (9CI) (CA INDEX NAME)

L4 ANSWER 40 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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t-Bu

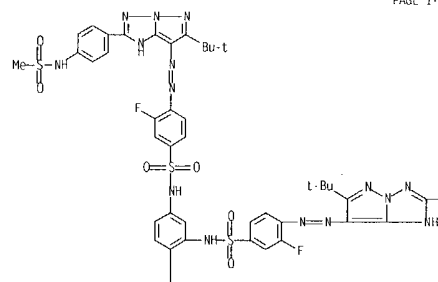
PAGE 2-B



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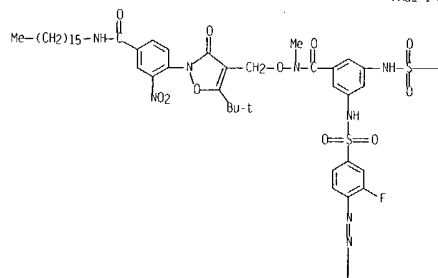
CN Benzamide, 4-[4-[[[2,4-bis[[[4-[[[6-(1,1-dimethylethyl)-2-[4-[(methylsulfonyl)amino]phenyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-3-fluorophenyl]sulfonyl]amino]phenoxy]methyl]-5-(1,1-dimethylethyl)-3-oxo-2(3H)-isoxazolyl]-N-hexadecyl-3-nitro- (9CI) (CA INDEX NAME)

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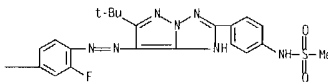


L4 ANSWER 40 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

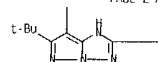
PAGE 1-A



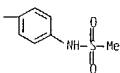
PAGE 1-B



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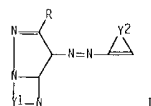
PAGE 2-B



L4 ANSWER 40 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

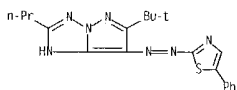
L4 ANSWER 41 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1993:202134 CAPLUS  
 DN 118:202134  
 TI Thermal-transfer ink sheets containing (heterocyclyazo)pyrazole derivatives as magenta dyes and thermal-transfer recording process  
 IN Komamura, Tawara: Kato, Katsunori: Miura, Akio  
 PA Konica Co., Japan  
 SO Jpn. Kokai Tokkyo Koho. 11 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04348992	A2	19921203	JP 1991-18948	19910212
	JP 3041725	B2	20000515		
PRAI	JP 1991-18948		19910212		
GI					

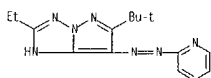


AB Thermal-transfer ink sheets having on a support a thermal-transfer layer containing the title dyes I (R = monovalent organic group; Y1 = atomic group required to form a 5- or 6-membered heterocycle; Y2 = atomic group required to form heteroaryl in which at least one atom neighboring on C directly bonded to the azo group is O, N, or S) are superimposed on a receptor and imagewise heated to give images of chelate dye formed by the reaction of I with a metal ion-donating compds. The ink sheets are storage-stable and show high chelating reactivity, and provide high-d. magenta images with high fixability and lightfastness.  
 IT 146944-87-8 146944-89-0  
 RL: USES (Uses)  
 (Thermal-transfer ink sheets containing, magenta images from)  
 RN 146944-87-8 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-7-[(5-phenyl-2-thiazolyl)azo]-2-propyl- (9C1) (CA INDEX NAME)

L4 ANSWER 41 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

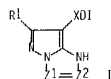


RN 146944-89-0 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 6-(1,1-dimethylethyl)-2-ethyl-7-(2-pyridinylazo)- (9C1) (CA INDEX NAME)



L4 ANSWER 42 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1993:179921 CAPLUS  
 DN 118:179921  
 TI Silver halide color photographic material  
 IN Kawagishi, Toshio: Uchida, Minoru  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho. 72 pp.  
 CODEN: JKXXAF

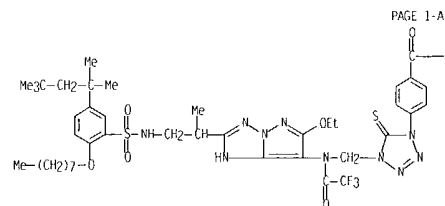
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 04308842	A2	19921030	JP 1991-100404	19910405
PRAI	JP 1991-100404		19910405		
GI					



AB The title material contains a development inhibitor-releasing coupler represented by I. For I, R1 = H, halo, heterocyclyl, cyano, etc.; R1 may also be a divalent group; Z1, Z2 = N, Cr2; R2 = as defined above for R1; X = OCO, OSO2, etc.; D1 = development inhibitor. The use of the title material gives excellent color reproduction  
 IT 146697-55-4  
 RL: TEM (Technical or engineered material use): USES (Uses)  
 (photog. coupler)  
 RN 146697-55-4 CAPLUS  
 CN Benzoic acid, 4-[4-[[[6-ethoxy-2-[1-methyl-2-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]ethyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]](trifluoroacetyl)amino]methyl]-4,5-dihydro-5-thioxo-1H-tetrazol-1-yl]-, ethyl ester (9C1) (CA INDEX NAME)



L4 ANSWER 42 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



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-OEt

L4 ANSWER 43 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1993:30052 CAPLUS

DN 118:30052

T1 Image-forming method using triazole type yellow dye

IN Miura, Akio; Kato, Katsunori; Konamura, Tawara

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

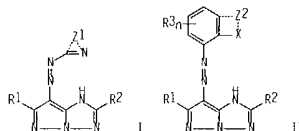
CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04176686	A2	19920624	JP 1990-305279	19901109
JP 3030718	B2	20000410		
PRA1 JP 1990-305279		19901109		
GI				



AB A thermal-transfer recording materials, having a layer containing Z1 yellow dye selected from I (R1-2 = H, substituent; Z1 = atoms required to form an aromatic heterocycle) or II [R1-3 = H, substituent; Z2 = atoms required to form a 5- or 6-membered aromatic heterocycle together with X; X = O, S, N, NR4 (R4 = H, alkyl); n = 0-3] on a support, is stacked on a receptor and the thermal-transfer material is imagewise heated to give an image of a chelate dye formed by the reaction of the yellow dye with a metal ion on the receptor. The method provides high color quality yellow images with good thermal resistance, lightfastness and fixability. Thus, a PET film was coated with a composition containing I (R1 = iso-Pr, R2 = Bu, Z1 = NHH:CH) and a binder to give a thermal-transfer sheet, while a paper support laminated with polyethylene containing TiO2 and [Ni(C2H5NHCH2CH2NH2)3]2+ (Ph4B-)2 was coated with silicone oil-containing poly(vinyl chloride) resin to give a receptor sheet. Image formation was carried out by using the 2 sheets to form yellow images with good gradation.

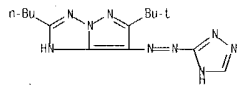
IT 144993-16-8P 144993-17-9P  
RL: PREP (Preparation)

L4 ANSWER 43 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

(prepn. of thermal-transfer recording material contg.)

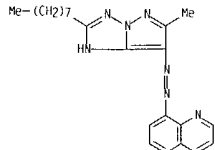
RN 144993-16-8 CAPLUS

CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 2-butyl-6-(1,1-dimethylethyl)-7-[(1H-1,2,4-triazol-3-ylazo)- (9CI) (CA INDEX NAME)



RN 144993-17-9 CAPLUS

CN Quinoline, 8-[(6-methyl-2-octyl-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl)azo]- (9CI) (CA INDEX NAME)

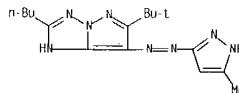


IT 144993-18-0 144993-19-1 144993-20-4  
144993-21-5 144993-22-6 144993-23-7  
144993-24-8

RL: USES (Uses)  
(thermal-transfer recording material containing)

RN 144993-18-0 CAPLUS

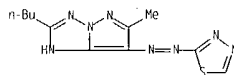
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 2-butyl-6-methyl-7-[(5-methyl-1H-pyrazol-3-yl)azo]- (9CI) (CA INDEX NAME)



RN 144993-19-1 CAPLUS

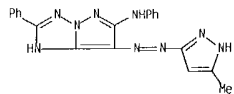
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 2-butyl-6-methyl-7-(1,3,4-thiadiazol-2-ylazo)- (9CI) (CA INDEX NAME)

L4 ANSWER 43 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



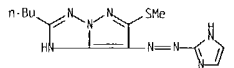
RN 144993-20-4 CAPLUS

CN 1H-Pyrazolo[1.5-b][1.2.4]triazol-6-amine, 7-[(5-methyl-1H-pyrazol-3-yl)azo]-N,2-diphenyl- (9CI) (CA INDEX NAME)



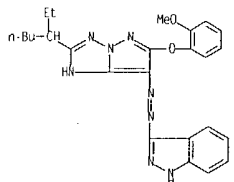
RN 144993-21-5 CAPLUS

CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 2-butyl-7-[(1H-imidazol-2-ylazo)-6-(methylthio)- (9CI) (CA INDEX NAME)



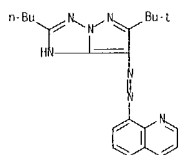
RN 144993-22-6 CAPLUS

CN 1H-Indazole, 3-[(2-(1-ethylpentyl)-6-(2-methoxyphenoxy)-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl)azo]- (9CI) (CA INDEX NAME)

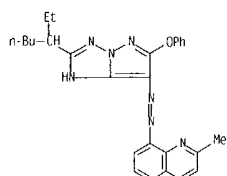


RN 144993-23-7 CAPLUS

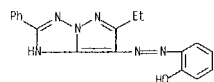
L4 ANSWER 43 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 CN Quinoline, 8-[[2-butyl-6-(1,1-dimethylethyl)-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl]azo]- (9C1) (CA INDEX NAME)



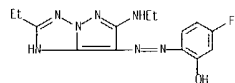
RN 144993-24-8 CAPLUS  
 CN Quinoline, 8-[[2-(1-ethylpentyl)-6-phenoxy-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl]azo]-2-methyl- (9C1) (CA INDEX NAME)



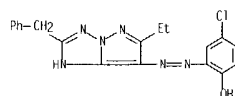
L4 ANSWER 44 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 142808-21-7 CAPLUS  
 CN Phenol, 2-[[2-ethyl-6-(ethylamino)-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl]azo]-5-fluoro- (9C1) (CA INDEX NAME)

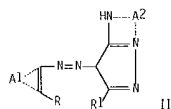


RN 142808-22-8 CAPLUS  
 CN Phenol, 4-chloro-2-[[5-ethyl-2-(phenylmethyl)-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl]azo]- (9C1) (CA INDEX NAME)



L4 ANSWER 44 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1992:501102 CAPLUS  
 DN 117:101102  
 TI Thermal-transfer recording material and recording method  
 IN Komamura, Tawara; Miura, Akio  
 PA Konica K. K., Japan  
 SO Jpn. Kokai Tokkyo Koho, 10 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 FAN, CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 04073191	A2	19920309	JP 1990-188473	19900716
PRA1 JP 1990-188473		19900716		
GI				



AB The material comprises a support coated with a layer essentially containing a dye I (R = chelatable group; R1= alkyl, alkoxy, aryloxy, amino, alkylamino, arylamino, alkoxyalkyl, acylamino; A1 = atoms forming aromatic hydrocarbon ring; A2 = atoms forming 5- or 6-membered aromatic heterocycle). The recording method involves (1) placing the receptor on the above-mentioned layer of the recording material, (2) heating the material according to the image information, and (3) forming image on the receptor by the chelate dye formed by the reaction of I and metal ion. The recording material has good antioffset property, and gives stable high d. magenta images.

IT 142808-20-6 142808-21-7 142808-22-8  
 RL: USCS (Uses)

(chelatable dye, thermal-transfer recording material using)

RN 142808-20-6 CAPLUS

CN Phenol, 2-[[6-ethyl-2-phenyl-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl]azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 45 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1992:265422 CAPLUS  
 DN 116:265422  
 TI Silver halide color photographic material  
 IN Motoki, Masushi; Okawa, Atsuhiko; Obayashi, Keiji  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 38 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese  
 FAN, CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 03223850	A2	19911002	JP 1990-19715	19900130
PRA1 JP 1990-19715		19900130		
GI				

For diagram(s), see printed CA Issue.

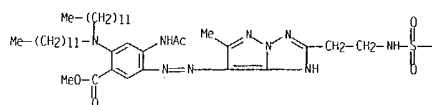
AB The title material contains at least one coupler selected from compds. having general structures I and II (A = a coupler residue; Z = R1, COR2, SO2R2, CO2R2; R = a substituent on the benzene ring; n = 1 to 4; m = 1 to 6; when n or m ≥ 2, substituents R may together form a ring; R1 = H, an aliphatic group, an aromatic ring residue, heterocyclyl; R2 = an aliphatic group, an aromatic ring residue, heterocyclyl, etc.). The title material gives excellent color reproduction

IT 141742-76-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (photog. coupler)

RN 141742-76-9 CAPLUS

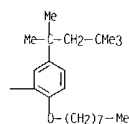
CN Benzoic acid, 4-(acetylamino)-2-(didodecylamino)-5-[[6-methyl-2-[[2-[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]ethyl]-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl]azo]-, methyl ester (9C1) (CA INDEX NAME)

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L4 ANSWER 45 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



L4 ANSWER 46 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:117224 CAPLUS

DN 116:117224

TI Color image recording method

IN Furuya, Keizo; Yabuki, Yoshiharu; Sato, Kozo; Hara, Hiroshi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 31 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03033749	A2	19910214	JP 1989-167972	19890629
	US 5096801	A	19920317	US 1990-503643	19900403
PRA1	JP 1989-84204		19890403		
	JP 1989-167972		19890629		

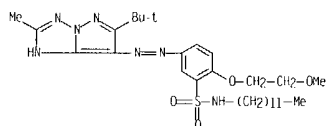
AB The method, suited for manufacturing full-color filters for liquid-crystal display devices, comprises the steps of: exposing imagewise a photosensitive material made by coating a support with a hydrophilic binder containing photopolymer, initiator(s), color image-forming material(s) and photopolymerizable compd(s); thus forming the photopolymer, compound which protects the image-forming material in the exposed area from a subsequent chemical treatment for discoloring the image-forming material in the unexposed area.

IT 138276-94-5

RL: USES (Uses)  
(photog. image forming materials, stabilized by photopolymers, for color filters)

RN 138276-94-5 CAPLUS

CN Benzenesulfonamide, 5-[[[6-(1,1-dimethylethyl)-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]azo]-2-(2-methoxyethoxy)-N-dodecyl]- (9C1) (CA INDEX NAME)



L4 ANSWER 47 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:691056 CAPLUS

DN 115:291056

TI Silver halide color photographic material

IN Ohkawa, Atsuhiko; Motoki, Masuji; Minayashi, Keiji; Kawagishi, Toshio

PA Fuji Photo Film Co., Ltd., Japan

SO Eur. Pat. Appl., 114 pp.

CODEN: EPXXDW

DT Patent

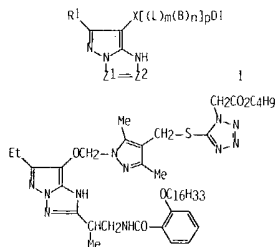
LA English

FAN CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 438148	A2	19910724	EP 1991-100511	19910117
	EP 438148	A3	19910814		
	R: OE, FR, GB, IT, NL				
	JP 04261529	A2	19920917	JP 1990-326210	19901128
	US 5360709	A	19941101	US 1993-37680	19930325
PRA1	JP 1990-7480		19900117		
	JP 1990-7481		19900117		
	JP 1990-298316		19901102		
	JP 1990-326210		19901128		
	JP 1990-324608		19901127		
	US 1991-642265		19910116		

OS MARPAT 115:291056

GI



II

AB The title material comprises a support having thereon at least one Ag halide emulsion layer which contains a development inhibitor-releasing coupler represented by I (R1 = H, halo, alkyl, aryl, etc.; when R1 is a divalent group, the coupler may form a bis-compound at the divalent group).

L4 ANSWER 47 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

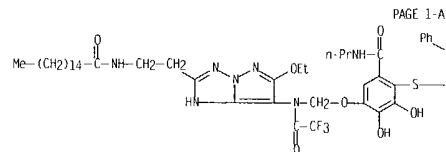
Z1, Z2 = N, CR2; R2 has the same meaning as R1; X = OCO, OSO2, SCO, etc.; L = group cleaving the bond of the right side after cleaving the left-side of L; B represents a group cleaving the left-side of L; B represents a group cleaving the bond at the right side of B by reacting with the oxid. product of a color developing agent; DI = development inhibitor; m, n = 0 or 1 with exclusion that m and n are simultaneously zero (sic); p = 1 or 2). The title material shows excellent sharpness, graininess, and storage stability. Pyrazolotriazole II is an example of I.

IT 137558-36-2 137558-37-3 137558-41-9

RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. coupler)

RN 137558-36-2 CAPLUS

CN Benzamide, 5-[[[6-ethoxy-2-[2-[(1-oxohexadecyl)amino]ethyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl](trifluoroacetyl)amino]methoxy]-3,4-dihydroxy-2-[(1-phenyl)-1H-tetrazol-5-yl]thio]-N-propyl- (9C1) (CA INDEX NAME)



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RN 137558-37-3 CAPLUS

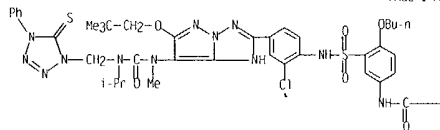
CN Tetradecanamide, N-[4-butoxy-3-[[[2-chloro-4-[7-[[[4,5-dihydro-4-phenyl]-5-thioxo-1H-tetrazol-1-yl)methyl](1-methylethyl)amino]carbonyl]methylamino]-6-(2,2-dimethylpropoxy)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]phenyl]- (9C1) (CA INDEX NAME)

L4 ANSWER 47 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

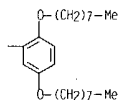
L4 ANSWER 47 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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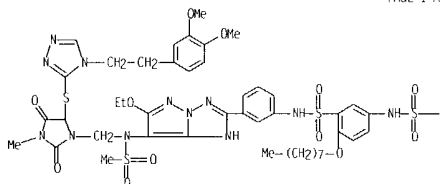


PAGE 1-B

—(CH<sub>2</sub>)<sub>12</sub>—Me

RN 137558-41-9 CAPLUS  
 CN Benzenesulfonamide, N-[3-[[[3-[7-[[[5-[[4-[2-(3,4-dimethoxyphenyl)ethyl]-4H-1,2,4-triazol-3-yl]thio]-3-methyl-2,4-dioxo-1-imidazolidinyl]methyl](methylsulfonyl)amino]-6-ethoxy-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenyl]amino]sulfonyl]-2-(octyloxy)phenyl]-2,5-bis(octyloxy)- (9CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 48 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

L4 ANSWER 48 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

AN 1991:502709 CAPLUS

DN 115:102709

TI Silver halide color photographic material containing pyrazoloazole-type cyan coupler

IN Kita, Hiroshi; Kida, Shuji; Kaneko, Yutaka; Hirabayashi, Shigeto

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JXXXXF

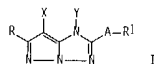
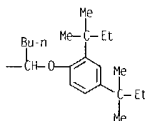
DT Patent

LA Japanese

FAN, CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1	JP 02201358	A2	19900809	JP 1989-21748	19890130
PRA1	JP 1989-21748		19890130		
G1					

PAGE 1-B



AB A red-sensitive Ag halide emulsion layer of the title photog. material contains a coupler I (R = electron acceptor or moiety forming H bond; A = arylene; X = moiety which is bonded with C at coupling position via O, S, or N and is capable of being released by reaction with oxidized product of a color developing agent; Y = H or moiety released during development). This photog. material containing the cyan coupler with good spectral characteristics gives improved color d. and sharp and stable cyan images.

IT 133922-11-9

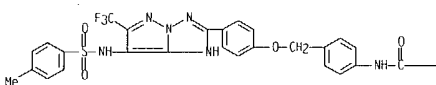
RL: USES (Uses)

(cyan coupler, red-sensitive photog. emulsion layer containing)

RN 133922-11-9 CAPLUS

CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[[4-[7-[[4-(4-methylphenyl)sulfonyl]amino]-6-(trifluoromethyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]phenoxy]methyl]phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



L4 ANSWER 49 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:196307 CAPLUS

DN 114:196307

TI Dye diffusion transfer color photographic materials for rapid processing of images with sharpness

IN Toriuchi, Masaharu; Kamio, Takayoshi

PA Fujii Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho. 23 pp.

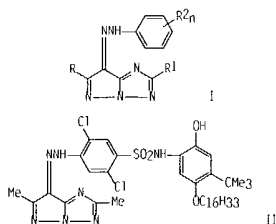
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1 JP 02235059	A2	19900918	JP 1989-55548	19890308
PRA1 JP 1989-55548		19890308		
GI				



AB In the materials comprising (combination of) layers containing Ag halide emulsion and diffusible dye-releasing redox compds., image-receiving layers containing mordants for the dyes, and neutralizing layers; the redox compds. are (DZ)qR [D = yellow dye moiety or precursor I; R = group which changes diffusibility of the dye moiety released by (reverse) imagewise reaction of redox compound and Ag halide; R1-3= H, halo, OH, cyano, carboxyl, (un)substituted aralkyl, (cyclo)alkyl, aryl, heterocycle moiety, alkoxy, aryloxy, (acyl)amino, sulfonylanino, acyl, sulfonyl, carbamoyl, sulfamoyl, ureido, alkylthio, arylthio; R3s may differ; Z = linkage group; n = integer of 0-4; q = 1, 2; D may differ when q = 2; D is bonded to Z at

L4 ANSWER 49 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

R1-3]. Thus, in an example, a dye diffusion transfer material (instant color film) was prepd. by incorporating yellow dye-releasing redox compd. II into the donor film in combination with core/shell type Ag(Br,I) emulsion.

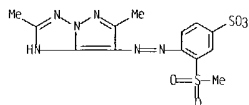
IT 126782-76-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and acid chlorination of, in preparation of color diffusion transfer photog. materials)

RN 126782-76-1 CAPLUS

CN Benzenesulfonic acid, 4-[(2,6-dimethyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl)azo]-3-(methylsulfonyl)-, ion(1-) (9C1) (CA INDEX NAME)

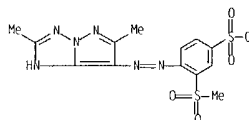


IT 133467-46-6P

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and condensation reaction of, with cyclohexylphenylamine, in preparation of color diffusion transfer photog. materials)

RN 133467-46-6 CAPLUS

CN Benzenesulfonyl chloride, 4-[(2,6-dimethyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl)azo]-3-(methylsulfonyl)- (9C1) (CA INDEX NAME)



L4 ANSWER 50 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1990:641433 CAPLUS

DN 113:241433

TI Silver halide color photographic materials containing pyrazolotriazole cyan couplers for image stability and good color reproduction

IN Kida, Shuji; Kita, Hiroshi; Hirabayashi, Shigeto; Kaneko, Yutaka

PA Japan

SO Jpn. Kokai Tokkyo Koho. 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1 JP 02188748	A2	19900724	JP 1989-9269	19890118
PRA1 JP 1989-9269		19890118		
GI				

For diagram(s), see printed CA Issue.

AB The title photog. material having ≥1 Ag halide emulsion layers on a support contains cyan coupler I [R = cyano, NO2, perfluoroalkyl, (perfluoro)alkylsulfonyl, etc.; R1 = H, substituent; A = 5-7 membered N-containing saturated nonmetallic heterocycle] in the red-sensitive emulsion layers. Thus, a multilayer color paper having a red-sensitive layer containing II showed excellent color reproduction

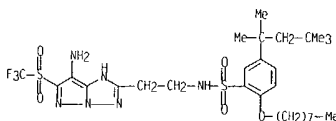
IT 130821-64-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, for cyan couplers, in color photog. materials)

RN 130821-64-6 CAPLUS

CN Benzenesulfonamide, N-[2-[7-amino-6-[(trifluoromethyl)sulfonyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]ethyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9C1) (CA INDEX NAME)



IT 130821-63-5P

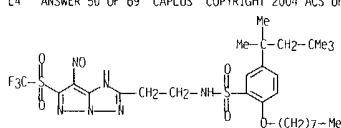
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reduction of, for cyan couplers, in color photog. materials)

RN 130821-63-5 CAPLUS

CN Benzenesulfonamide, N-[2-[7-nitroso-6-[(trifluoromethyl)sulfonyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]ethyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9C1) (CA INDEX NAME)

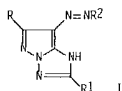
L4 ANSWER 50 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L4 ANSWER 51 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1990:218968 CAPLUS  
 DN 112:218968  
 TI Thermal-transfer printing material containing yellowish pyrazole derivative colorant  
 IN Kamio, Takayoshi; Sato, Kozo  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 13 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01275187	A2	19891102	JP 1988-105681	19880428
JP 07094183	B4	19951011		
PRA1 JP 1988-105681		19880428		
OS MARPAT 112:218968				
GI				



AB The title material has, on a support, a color material layer containing a pyrazole colorant of the structure I [R, R1 = H, substituent; R2 = (substituted) aromatic group or heterocyclic]. The colorant, useful for a heat-fusible ink and a sublimation ink, exhibits desirable spectral characteristics and lightfastness. Thus, S-PET (PET film) was coated with a composition containing I [R, R1 = Me; R2 = 2,4-di(methylsulfonyl)phenyl]. Denka Butyral 5000A [poly(vinyl butyral)], and Takenate D10N (polyisocyanate) on the front side and coated with a slipping layer on the back side to give a thermal-transfer sublimation printing sheet giving a yellowish image.

IT 126782-77-2 127201-86-9 127201-87-0

127201-88-1 127201-89-2 127201-90-5

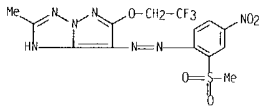
RL: USES (Uses)

(thermal-transfer nonimpact printing material with ink containing, as yellow colorant with light resistance)

RN 126782-77-2 CAPLUS

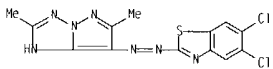
CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 7-[[2,4-bis(methylsulfonyl)phenyl]azo]-2,6-dimethyl- (9C1) (CA INDEX NAME)

L4 ANSWER 51 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



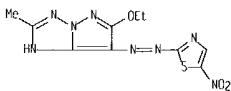
RN 127201-89-2 CAPLUS

CN Benzothiazole, 5,6-dichloro-2-[(2,6-dimethyl-1H-pyrazolo[1.5-b][1.2.4]triazol-7-yl)azo]- (9C1) (CA INDEX NAME)

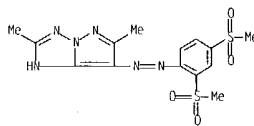


RN 127201-90-5 CAPLUS

CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 6-ethoxy-2-methyl-7-[(5-nitro-2-thiazolyl)azo]- (9C1) (CA INDEX NAME)

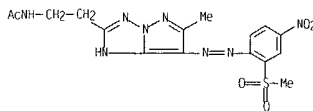


L4 ANSWER 51 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



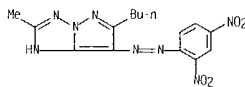
RN 127201-86-9 CAPLUS

CN Acetamide, N-[2-[6-methyl-7-[[2-(methylsulfonyl)-4-nitrophenyl]azo]-1H-pyrazolo[1.5-b][1.2.4]triazol-2-yl]ethyl]- (9C1) (CA INDEX NAME)



RN 127201-87-0 CAPLUS

CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 6-butyl-7-[[2,4-dinitrophenyl]azo]-2-methyl- (9C1) (CA INDEX NAME)



RN 127201-88-1 CAPLUS

CN 1H-Pyrazolo[1.5-b][1.2.4]triazole, 2-methyl-7-[[2-(methylsulfonyl)-4-nitrophenyl]azo]-6-(2,2,2-trifluoroethoxy)- (9C1) (CA INDEX NAME)

L4 ANSWER 52 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1990:200853 CAPLUS

DN 112:200853

TI Oil-based water-resistant inks

IN Kamio, Takayoshi; Sato, Kozo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

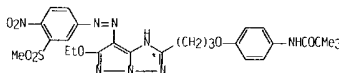
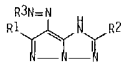
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01271468	A2	19891030	JP 1988-99768	19880422
JP 06021254	B4	19940323		
PRA1 JP 1988-99768		19880422		
OS MARPAT 112:200853				
GI				



AB The title inks contain pyrazolotriazoles I [R1, R2 = H, substitution groups; R3 = (un)substituted aromatic or heterocyclic groups]. Thus, pyrazolotriazole II 6, dibutyl adipate 74, and PhCH2OH 20 parts were mixed and filtered to give an ink. When the ink was applied to jet printing, water-resistant clear yellow image with high color d, was obtained.

IT 126782-71-6 126782-72-7 126782-73-8

126820-78-8

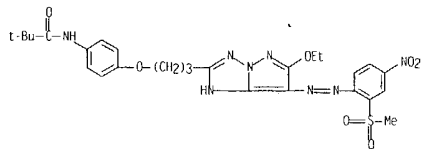
RL: USES (Uses)

(inks containing, oil-based, water- and light-resistant)

RN 126782-71-6 CAPLUS

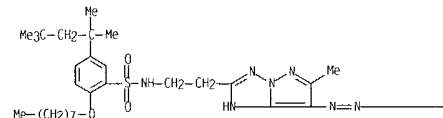
CN Propanamide, N-[4-[3-[6-ethoxy-7-[[2-(methylsulfonyl)-4-nitrophenyl]azo]-1H-pyrazolo[1.5-b][1.2.4]triazol-2-yl]propoxy]phenyl]-2,2-dimethyl- (9C1) (CA INDEX NAME)

L4 ANSWER 52 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

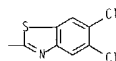


RN 126782-72-7 CAPLUS  
 CN Benzenesulfonamide, N-[2-[7-[(5,6-dichloro-2-benzothiazolyl)azo]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]ethyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



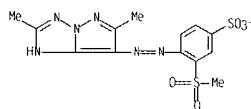
PAGE 1-B



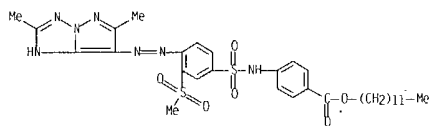
RN 126782-73-8 CAPLUS  
 CN Benzoic acid, 4-[[[4-[(2,6-dimethyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl)azo]-3-(methylsulfonyl)phenyl]sulfonyl]amino]-, dodecyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 52 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

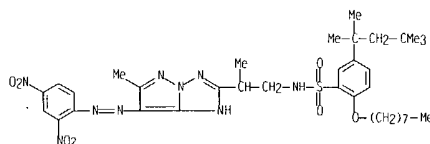
RN 126782-76-1 CAPLUS  
 CN Benzenesulfonic acid, 4-[(2,6-dimethyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl)azo]-3-(methylsulfonyl)-, ion(1-) (9CI) (CA INDEX NAME)



L4 ANSWER 52 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

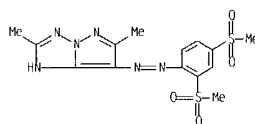


RN 126820-78-8 CAPLUS  
 CN Benzenesulfonamide, N-[2-[7-[(2,4-dinitrophenyl)azo]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]-2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)- (9CI) (CA INDEX NAME)



IT 126782-77-2P  
 RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and amidation of, with anilines)

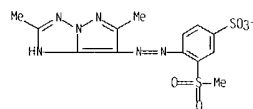
RN 126782-77-2 CAPLUS  
 CN 1H-Pyrazolo[1,5-b][1,2,4]triazole, 7-[(2,4-bis(methylsulfonyl)phenyl)azo]-2,6-dimethyl- (9CI) (CA INDEX NAME)



IT 126782-76-1P  
 RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and chlorination of)

L4 ANSWER 52 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 126782-76-1 CAPLUS  
 CN Benzenesulfonic acid, 4-[(2,6-dimethyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl)azo]-3-(methylsulfonyl)-, ion(1-) (9CI) (CA INDEX NAME)



L4 ANSWER 53 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

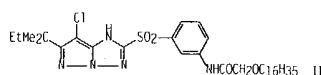
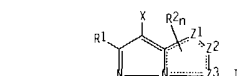
AN 1989:415279 CAPLUS  
 DN 111:15279  
 TJ Silver halide photographic materials containing new cyan couplers  
 JN Tachibana, Kimie; Kaneko, Yutaka; Ishii, Fumio  
 PA Konica Co., Japan  
 SO Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JKKXAF

DT Patent

LA Japanese

FAN CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 64000556	A2	19890105	JP 1987-294703	19871121
	JP 64000554	A2	19890105	JP 1987-294701	19871121
	JP 2517334	B2	19960724		
	JP 64000555	A2	19890105	JP 1987-294702	19871121
	JP 2535569	B2	19960918		
	JP 64000552	A2	19890105	JP 1987-294592	19871122
PRAI	US 4873183	A	19891010	US 1988-291351	19881229
	JP 1986-280164		19861125		
	JP 1986-313458		19861227		
	JP 1987-53418		19870309		
	JP 1986-313455		19861227		
	JP 1987-47323		19870302		
	JP 1987-53417		19870309		
	JP 1987-62162		19870317		
	JP 1987-62163		19870317		
	JP 1987-184552		19870723		
	US 1987-124987		19871124		
GI					



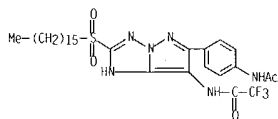
AB Cyan couplers of the formula I (R1 = H, substituent; X = a leaving group; Z1-Z3 = (substituted) methine or methylene; N, NR3; R3 = H, substituent; 1 of the Z1-Z2 and Z2-Z3 bonds is a double bond and the other a single bond; Z1, Z2 are not NR3 or N simultaneously; ≥ 1 of R2 is sulfonyl, sulfonyloxy, sulfonylmethyl, sulfinyl, sulfamoyl, phosphoryl, tetrazolyl, pyrrolyl, haloalkyl, haloalkoxy, haloaryloxy, acyloxy, CO2H, carbamoyl, NO2, halo; R2 is bonded to the C atoms of the ring; and n = 1, 2). These

L4 ANSWER 53 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
couplers give images with good spectral characteristics and high fastness:  
the use of matching sensitizers with these couplers further increases the  
sensitivity and storage stability of coupler-contg. coating solns. Thus,  
a red-sensitive Ag(Cl.Br) emulsion layer contg. II, and a protective  
layer, were formed on a polyethylene-coated photog. base paper. A cyan  
image obtained by exposure and processing showed a max reflectance d. at  
611 nm, with half-peak width 100 nm, and a reflectance d. at 420 nm of  
0.16. Upon storage of the image at 60° and 80% humidity for 14  
days, 99% of the initial cyan image d. was retained.

IT 121066-01-1  
RL: USES (Uses)  
(as photog. cyan coupler)

RN 121066-01-1 CAPLUS

CN Acetamide, N-[6-[4-(acetylamino)phenyl]-2-(hexadecylsulfonyl)-1H-  
pyrazolo[1.5-b][1.2.4]triazol-7-yl]-2,2,2-trifluoro- (9CI) (CA INDEX  
NAME)



L4 ANSWER 54 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1989:31337 CAPLUS  
DN 110:31337  
TI Silver halide color photographic materials containing magenta couplers  
IN Kida, Shuji; Nakagawa, Satoshi  
PA Konica Co., Japan  
SO Jpn. Kokai Tokkyo Koho, 15 pp.  
CODEN: JKXXAF

DT Patent

LA Japanese

FAN, CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 63153547	A2	19880625	JP 1986-300517	19861217
JP 07119991	B4	19951220		
PRAI JP 1986-300517		19861217		

OS MAPPAT 110:31337

GI For diagram(s), see printed CA Issue.

AB 1H-Pyrazolo[1.5-b][1.2.4]triazole derivs. substituted at the 2-position by  
a group I (R1-3 = substituents; m = 0-3) are contained in Ag halide  
emulsion layers of the photog. materials, as magenta couplers. These  
couplers provide improved color reproduction and color formation. Thus,  
photog. paper was coated with green-sensitive Ag(Cl.Br) emulsion mixed  
with di-Bu phthalate-ETOAC emulsion of II (0.15 mol coupler/mol Ag) and  
other additives. Exposed and processed paper showed high sensitivity,  
wide gradation, and maximum d. 3.03.

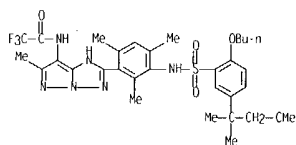
IT 118188-84-4

RL: TEH (Technical or engineered material use): USES (Uses)

(photog. magenta coupler, photog. paper containing)

RN 118188-84-4 CAPLUS

CN Acetamide, N-[2-[3-[[[2-butoxy-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl  
amino]-2,4,6-trimethylphenyl]-6-methyl-1H-pyrazolo[1.5-b][1.2.4]triazol-7-  
yl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



L4 ANSWER 55 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:619509 CAPLUS

DN 109:219509

TI Silver halide color photographic photosensitive materials containing  
masking compounds

IN Shimada, Yasuhiro; Obayashi, Keiji; Ichijima, Yasushi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 41 pp.

CODEN: JKXXAF

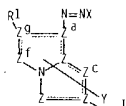
DT Patent

LA Japanese

FAN, CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 63110452	A2	19880514	JP 1986-257969	19861029
PRAI JP 1986-257969		19861029		

GI



AB The title color photog. materials contain ≥1 compound of the formula  
I (R1 = H, substituent; X = aryl, heterocyclyl having ≥1 double  
bond capable of conjugating with the azo group; Y = group released upon  
reaction with an alkali; Z = N atom; ZC, Ze or Zf, Za, zb, zg =  
C atom; Zf = N atom; ZC, Zd, Ze = (unsubstituted methyne, N: dotted lines  
denote that the bonds are either single or double bonds, depending on the  
type of the Za-Zg atoms; the compound may be an oligomer). The azole type  
masking compds. I shows good color-correcting ability without causing  
degradation of photog. sensitivity.

IT 117568-88-4P 117568-89-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

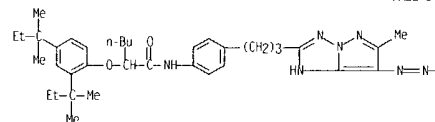
(preparation and acetylation of, photog. colored coupler from)

RN 117568-88-4 CAPLUS

CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[3-[7-[[4-  
(dimethylamino)phenyl]azo]-6-methyl-1H-pyrazolo[1.5-b][1.2.4]triazol-2-  
yl]propyl]phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 55 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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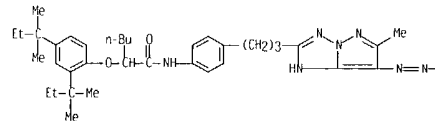
PAGE 1-B



RN 117568-89-5 CAPLUS

CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[3-[7-[[4-  
methoxyphenyl]azo]-6-methyl-1H-pyrazolo[1.5-b][1.2.4]triazol-2-  
yl]propyl]phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



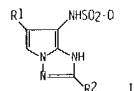
PAGE 1-B





L4 ANSWER 56 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1988:619492 CAPLUS  
 DN 109:219492  
 TI Dye-releasing compound-containing diffusion-transfer color photographic material  
 IN Kawada, Ken; Sato, Kozo; Hirai, Hiroyuki  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho. 25 pp.  
 CDBEN: JXXXXF  
 DT Patent  
 LA Japanese

FAN	CNT	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP	63074055	A2	19880404	JP 1986-220523	19860918
	JP	05087820	B4	19931220		
PRAI	JP	1986-220523		19860918		
GI						

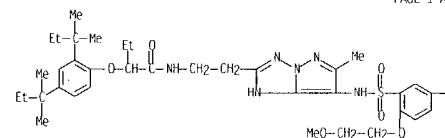


AB The title material contains a photosensitive Ag halide, a binder, and a dye-releasing compound (1) (R1, R2 = H, halo, CN, aryl, heterocycle, alkoxy, aryloxy, acyloxy, alkylsulfonyloxy, arylsulfonyloxy, acylamino, anilino, ureido, alkylsulfonylamino, arylsulfonylamino, alkylthio, alkoxy-carbonylamino, aryloxy-carbonylamino, carbamoyl, acyl, alkylsulfonyl, arylsulfonyl; R1 and/or R2 have C2-10; and D = dye moiety or its precursor) capable of releasing a diffusive dye by oxidation during development. This material gives high color d. on dye transfer.

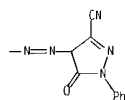
IT 116221-55-7  
 RL: USES (Uses)  
 (dye-releasing compound, for diffusion-transfer color photog. material)  
 RN 116221-55-7 CAPLUS  
 CN Propanamide, N-[4-[[2-cyano-4-(methylsulfonyl)phenyl]azo]-5-[[[3-[[[6-ethyl-2-[3-[[[2-(octyloxy)-5-(1,1,3,3-tetramethylbutyl)phenyl]sulfonyl]amino]propyl]-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]amino]sulfonyl]phenyl]sulfonyl]amino]-1-hydroxy-2-naphthalenyl]- (9C1) (CA INDEX NAME)

L4 ANSWER 56 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

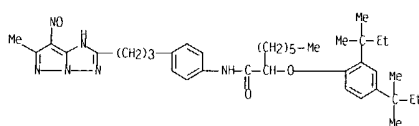
PAGE 1-A



PAGE 1-B



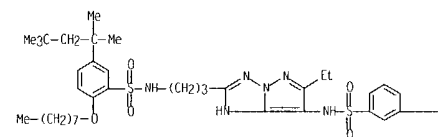
IT 116221-56-8P 117599-25-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, dye-releasing compound from, for diffusion-transfer color photog. material)  
 RN 116221-56-8 CAPLUS  
 CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[3-(6-methyl-7-nitroso-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)propyl]phenyl]- (9C1) (CA INDEX NAME)



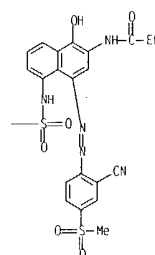
RN 117599-25-4 CAPLUS  
 CN Stannate(1-), pentachloro-, hydrogen, compd. with N-[4-[3-(7-amino-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl)propyl]phenyl]-2-[2,4-bis(1,1-dimethylpropyl)phenoxy]octanamide (1:1) (9C1) (CA INDEX NAME)

CH 1

L4 ANSWER 56 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 PAGE 1-A



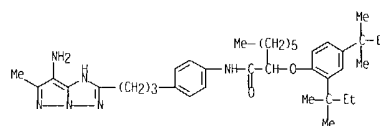
PAGE 1-B



IT 116221-54-6  
 RL: USES (Uses)  
 (dye-releasing compound, for diffusion-transfer color photog. material)  
 RN 116221-54-6 CAPLUS  
 CN Butanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[2-[7-[[[5-[[[3-cyano-4,5-dihydro-5-oxo-1-phenyl-1H-pyrazol-4-yl]azo]-2-(2-methoxyethoxy)phenyl]sulfonyl]amino]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]ethyl]- (9C1) (CA INDEX NAME)

L4 ANSWER 56 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

CRN 117599-24-3  
 CMF C38 H56 N6 O2



CH 2

CRN 44245-56-9  
 CMF C15 Sn . H  
 CCI CCS

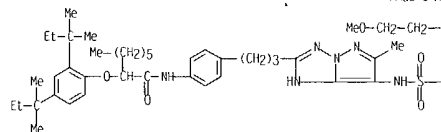


●H\*

IT 116221-53-5P  
 RL: PREP (Preparation)  
 (preparation of, as dye-releasing compound, for diffusion-transfer color photog. material)  
 RN 116221-53-5 CAPLUS  
 CN Octanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[3-[7-[[[5-[[[3-(diethylamino)sulfonyl]-4-hydroxy-8-[(methylsulfonyl)amino]-1-naphthalenyl]azo]-2-(2-methoxyethoxy)phenyl]sulfonyl]amino]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]phenyl]- (9C1) (CA INDEX NAME)

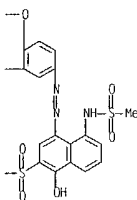
L4 ANSWER 56 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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Et2N—

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L4 ANSWER 57 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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L4 ANSWER 57 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:501764 CAPLUS

DN 109:101764

TI Silver halide color photographic material containing pyrazoloazole magenta coupler

IN Kida, Shuji; Tanaka, Takako; Nakagawa, Satoshi

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho. 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63064046	A2	19880322	JP 1986-209971	19860905
JP 06040212	B4	19940525		
JP 1986-209971		19860905		

PRAI JP 1986-209971

OS MARPAT 109:101764

GI For diagram(s), see printed CA issue.

AB The title material contains pyrazoloazole magenta coupler I (R1= alkyl;

R2-3= H, substituent; Z1-3 = (un)substituted methine, (un)substituted methylene, N, NH; either 1 of Z1-Z2 and Z2-Z3 bonds is a double bond, and the other is a single bond; X = H, group released through coupling). The coupler is resistant to HCHO, and provides stable images. Thus, a polyester base was coated with a green-sensitive Ag(I.Br) emulsion containing 0.1 mol/mol Ag of emulsified II. The exposed and processed film showed high sensitivity, high image d., and resistance to HCHO vapor (7% decrease of image d. by 3-day exposure at 32°).

IT 116042-78-5

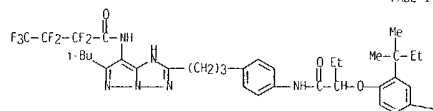
RL: USES (Uses)

(magenta coupler, formaldehyde-resistant)

RN 116042-78-5 CAPLUS

CN Butanamide, N-[2-[3-[4-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxobutyl]amino]phenyl]propyl]-6-(2-methylpropyl)-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-2,2,3,3,4,4,4-heptafluoro- (9CI) (CA INDEX NAME)

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L4 ANSWER 57 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



L4 ANSWER 58 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:414569 CAPLUS

DN 109:14569

TI Silver halide color photographic material containing pyrazolotriazole magenta coupler

IN Shimazaki, Hiroshi; Fujiwara, Mitsuo

PA Konishiroku Photo Industry Co., Ltd., Japan

SO Eur. Pat. Appl., 191 pp.

CODEN: EPXXOW

DT Patent

LA English

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 236131	A2	19870909	EP 1987-301863	19870304
EP 236131	A3	19890125		
JP 62205351	A2	19870909	JP 1986-50077	19860305
JP 06016164	B4	19940302		
US 4968594	A	19901105	US 1989-361817	19890601
JP 1986-50077		19860305		

GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

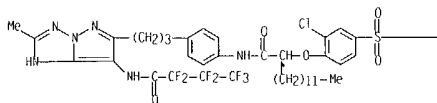
AB A neg. Ag halide color photog. material that does not have any unwanted absorption in magenta color-forming layer and exhibits superior stability during storage in hot and humid atmospheric is comprised of 21 Ag halide emulsion layer containing a pyrazolotriazole-type magenta coupler represented by the formula I or II (R = H, a group which, when the coupler is reacted with the oxidation product of an aromatic primary amine color developing agent to form a dye, can be eliminated; R1,R2 = alkyl, aryl, heterocyclyl, each group may be bonded to the C atom of the pyrazolotriazole nucleus through a bond group selected from O, N, or S) and a means for forming an unsharp pos. image. Thus a cellulose triacetate film support was coated with an antihalation layer, an intermediate layer, a less red-sensitive Ag halide emulsion layer, a highly red-sensitive Ag halide emulsion layer, an intermediate layer containing the compound III, a less green-sensitive Ag halide emulsion layer containing a colored magenta coupler and the magenta coupler IV, a highly green-sensitive Ag halide emulsion layer containing the colored magenta coupler and IV, a yellow filter layer, a less blue-sensitive Ag halide emulsion layer, a highly blue-sensitive blue-sensitive Ag halide emulsion layer, a 1st protective layer, and a 2nd protective layer, exposed to white light through a wedge, color developed, bleached, washed, fixed, and dried to show a gamma drop of 54, a MIF of magenta image of 125, and a sensitivity of magenta image of 115 vs. 21, 100, and 100, resp., for a control containing no III and a magenta coupler outside the scope of the invention.

IT 112493-35-3

L4 ANSWER 58 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. magenta coupler, for color materials of improved storage stability)

RN 112493-35-3 CAPLUS  
CN Tetradecanamide, 2-[2-chloro-4-[(3-chloro-4-hydroxyphenyl)sulfonyl]phenoxy]-N-[4-[3-[7-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]propyl]phenyl]- (9C1) (CA INDEX NAME)

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L4 ANSWER 60 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:65947 CAPLUS

DN 108:65947

TI Silver halide color photographic photosensitive materials

IN Ezaki, Atsuo; Ishikawa, Minoru

PA Konishiroku Photo Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 36 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62172361	A2	19870729	JP 1986-14601	19860125
JP 1986-14601		19860125		

AB The claimed photog. materials contain  $\geq 1$  pyrazolotriazole derivative type magenta coupler and  $\geq 1$  noncolored phenolic compound in  $\geq 1$  of the emulsion layers, and are kept at a relative humidity of  $\leq 55\%$ . The color photog. materials show improved storage stability.

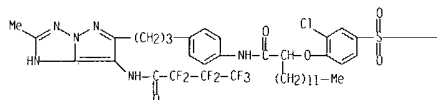
IT 112493-35-3

RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. magenta coupler, stabilization of materials containing)

RN 112493-35-3 CAPLUS

CN Tetradecanamide, 2-[2-chloro-4-[(3-chloro-4-hydroxyphenyl)sulfonyl]phenoxy]-N-[4-[3-[7-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]propyl]phenyl]- (9C1) (CA INDEX NAME)

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L4 ANSWER 59 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:177022 CAPLUS

DN 108:177022

TI Silver halide color photographic photosensitive materials with improved gradient characteristics

IN Kajiwara, Makoto; Onodera, Kaoru

PA Konishiroku Photo Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 50 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62198860	A2	19870902	JP 1986-42749	19860227
JP 06050511	B4	19940803		
JP 1986-42749		19860227		

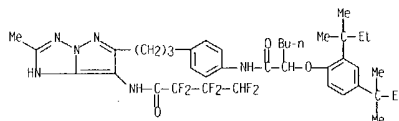
AB The title photog. materials have  $\geq 1$  emulsion layer which is prepared by adding a coupler and a water-soluble Ag salt after chemical ripening of the emulsion. The preferred coupler is pyrazoloazole type magenta coupler, and the water-soluble Ag salt is selected from nitrite, nitrate, chlorate, perchlorate, sulfate, acetate, capronate, propionate, butyrate, valerate, isovalerate, and naphthoate.

IT 113980-72-6

RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. coupler, gradient characteristics in relation to)

RN 113980-72-6 CAPLUS

CN Hexanamide, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-N-[4-[3-[7-[(2,2,3,3,4,4-hexafluoro-1-oxobutyl)amino]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]propyl]phenyl]- (9C1) (CA INDEX NAME)



L4 ANSWER 61 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:65946 CAPLUS

DN 108:65946

TI Silver halide color photographic photosensitive materials

IN Ishikawa, Minoru; Ezaki, Atsuo

PA Konishiroku Photo Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 48 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62172357	A2	19870729	JP 1986-14543	19860126
JP 1986-14543		19860126		

AB The title photog. materials contain  $\geq 1$  pyrazolotriazole derivative type magenta coupler and  $\geq 1$  cyclic ether, and they are stored at relative humidity  $\leq 55\%$ . The photog. materials show excellent storage stability.

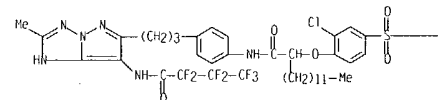
IT 112493-35-3

RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. magenta coupler, storage stability of films containing)

RN 112493-35-3 CAPLUS

CN Tetradecanamide, 2-[2-chloro-4-[(3-chloro-4-hydroxyphenyl)sulfonyl]phenoxy]-N-[4-[3-[7-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]propyl]phenyl]- (9C1) (CA INDEX NAME)

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L4 ANSWER 62 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1988:65929 CAPLUS  
DN 108:65929  
TI Silver halide color photographic materials  
IN Watanabe, Yoshikazu; Ishikawa, Minoru  
PA Konishiroku Photo Industry Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho. 46 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62166342	A2	19870722	JP 1986-9783	19860120
PRAI	JP 1986-9783		19860120		

AB More than one pyrazolotriazole magenta coupler is incorporated in the material having a total hydrophilic colloidal film thickness < 18 µm on the side of Ag halide emulsion layers to improve its storage stability in high temperature and high humidity environments and provides images with improved sharpness. The material has red-sensitive Ag halide emulsion layers containing cyan couplers, green-sensitive Ag halide emulsion layers containing magenta couplers, and blue-sensitive Ag halide emulsion layers containing yellow couplers.

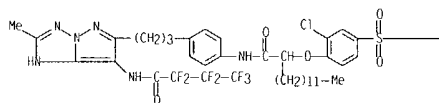
IT 112493-35-3

RL: TEM (Technical or engineered material use): USES (Uses)  
(photog. magenta coupler, for improved storage stability and images with improved sharpness)

RN 112493-35-3 CAPLUS

CN Tetradecanamide, 2-[2-chloro-4-[(3-chloro-4-hydroxyphenyl)sulfonyl]phenoxy]-N-[4-[3-[7-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]propyl]phenyl]- (9C1) (CA INDEX NAME)

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L4 ANSWER 63 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1988:65928 CAPLUS  
DN 108:65928  
TI Silver halide color photographic materials  
IN Watanabe, Yoshikazu; Yamada, Yoshitaka  
PA Konishiroku Photo Industry Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho. 42 pp.  
CODEN: JKXXAF

DT Patent  
LA Japanese

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62166340	A2	19870722	JP 1986-9781	19860120
PRAI	JP 1986-9781		19860120		

AB The material contains a pyrazolotriazole magenta coupler and a fogging agent-releasing compound, a development accelerator-releasing compound, or a compound to release the precursor of the fogging agent or the development accelerator. The compound releases the above fogging agent, the accelerator, or their precursors on coupling with oxidized developers. The material shows improved sensitivity and provides color images with improved graininess.

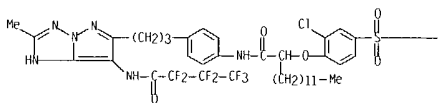
IT 112493-35-3

RL: TEM (Technical or engineered material use): USES (Uses)  
(photog. magenta coupler, for improved sensitivity and images with improved graininess)

RN 112493-35-3 CAPLUS

CN Tetradecanamide, 2-[2-chloro-4-[(3-chloro-4-hydroxyphenyl)sulfonyl]phenoxy]-N-[4-[3-[7-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]propyl]phenyl]- (9C1) (CA INDEX NAME)

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L4 ANSWER 62 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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L4 ANSWER 63 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L4 ANSWER 64 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1988:46785 CAPLUS

DN 108:46785

TI Silver halide color photographic material

IN Takada, Shun; Onodera, Kaoru; Nishijima, Toyoki

PA Konishiroku Photo Industry Co., Ltd., Japan

SD Jpn. Kokai Tokkyo Koho, 53 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 62173470	A2	19870730	JP 1986-16184	19860128
EP 235913	A2	19870909	EP 1987-300641	19870126
EP 235913	A3	19880907		
EP 235913	B1	19901205		

US 4753870	A	19880628	US 1987-7800	19870128
PRAI JP 1986-16184		19860128		

GI For diagram(s), see printed CA Issue.

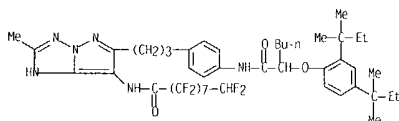
AB A pyrazolotriazole magenta coupler and an anionic surfactant are added to 2) Ag halide emulsion layer of the material to improve the stability of the magenta coupler dispersion and provide color images with improved lightfastness and reproduction. The magenta coupler has the formula I (Z = N-containing heterocyclic ring residue; X = H, group to be separated on coupling; R = H, substituent) and the surfactant has the formula RI(O)nSO<sub>3</sub>M (RI = alkyl; M = H, cation; n = 0, 1).

IT 93846-40-3

RL: TEM (Technical or engineered material use); USES (Uses)  
(photog. magenta coupler, for images with improved lightfastness and color reproduction)

RN 93846-40-3 CAPLUS

CN Nonanamide, N-[6-[3-[4-[[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxohexyl]amino]phenyl]propyl]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluoro- (9CI) (CA INDEX NAME)



L4 ANSWER 65 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1986:216426 CAPLUS

DN 104:216426

TI Color photographic material

IN Furusawa, Genichi; Sato, Tadahisa; Ono, Shigetoshi

PA Fuji Photo Film Co., Ltd., Japan

SD Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 60262160	A2	19851225	JP 1984-118411	19840608
PRAI JP 1984-118411		19840608		

GI For diagram(s), see printed CA Issue.

AB A supported light-sensitive silver halide emulsion layer of a color photog. material contains a compound of the formula I (R = aromatic ring or heterocyclic ring which have ≥1 5- or 6-membered ring; A is the structure II, III or IV condensed with the pyrazole ring; R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> = H, photog. inert group; RS = linkage group; n = 0, 1; R<sub>4</sub> = a functional group capable of releasing the diffusible azo dye on redox reaction). It provides an instant photog. material which releases a highly diffusible dye capable of complex formation that improves dye stability, spectral absorption, and molar extinction coefficient. Thus, an instant color material of peel-apart-type was prepared by using the dye releaser V combined with a Ag(Br, I) emulsion and Ni(AcO)<sub>2</sub> impregnated in the outermost gelatin layer. Upon development under contact with the cover sheet, it produced high-d. color images with suitable spectral absorption due to the chelation with the Ni salt.

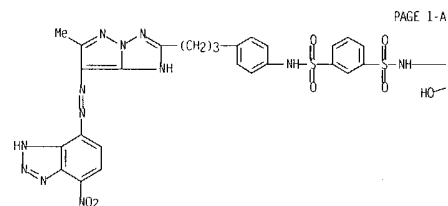
IT 102253-39-4 102267-59-4

RL: USES (Uses)  
(instant photog. material containing)

RN 102253-39-4 CAPLUS

CN 1,3-Benzenedisulfonamide, N-[5-(1,1-dimethylethyl)-4-(hexadecyloxy)-2-hydroxyphenyl]-N'-[4-[3-[6-methyl-7-[(7-nitro-1H-benzotriazol-4-yl)azo]-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]phenyl]- (9CI) (CA INDEX NAME)

L4 ANSWER 65 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

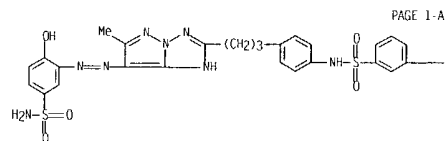


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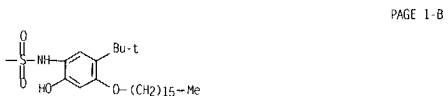


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RN 102267-59-4 CAPLUS  
CN 1,3-Benzenedisulfonamide, N-[4-[3-[7-[[[5-(aminosulfonyl)-2-hydroxyphenyl]azo]-6-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-2-yl]propyl]phenyl]-N'-[5-(1,1-dimethylethyl)-4-(hexadecyloxy)-2-hydroxyphenyl]- (9CI) (CA INDEX NAME)



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L4 ANSWER 65 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

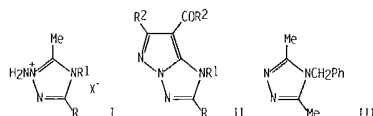
L4 ANSWER 66 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1986:148883 CAPLUS  
 DN 104:148883  
 TI Pyrazolo[1,5-b][1,2,4]triazoles  
 IN Sato, Tadahisa; Kawagishi, Toshio; Koyakata, Nobuo  
 PA Fujii Photo Film Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN, CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 60190779	A2	19850928	JP 1984-45601	19840312
JP 04079349	B4	19921215		
JP 05186469	A2	19930727	JP 1992-194902	19920629
JP 07014940	B4	19950222		
PRAI JP 1984-45601		19840312		

GI



AB Triazolium salts I [R = H, (un)substituted alkyl, aryl; R1 = (substituted) alkyl, (substituted) aryl; X = acid residue] underwent cyclocondensation reaction with (R2CO)2O or Me3CO2COR2 [R2 = H, alkyl, (substituted) aryl] to give the pyrazolotriazoles II. Thus, tetraacetylhydrazine underwent thermal decomposition to give 2,5-dimethyl-1,3,4-oxadiazole, which (19 g) reacted with 31 g PhCH2NH2 at 110° for 4 h to give 26 g benzyltriazole III, which (75 g) was treated with aqueous KO3SDNH2 at 80-90° for 6 h to give, after treatment with aqueous HI, 39 g I (R = Me, R1 = PhCH2, X = iodide), cyclocondensation of which (8 g) with 40 mL Ac2O in DMF at 120-130° for 4 h gave 3.2 g II (R = R2 = Me, R1 = PhCH2).

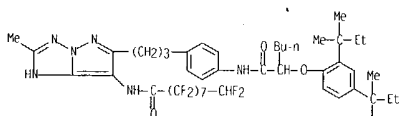
IT 93846-40-3P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 93846-40-3 CAPLUS

CN Nonanamide, N-[6-{3-[4-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxohexyl]amino]phenyl]propyl]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-

L4 ANSWER 66 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 y1]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluoro- (9C1) (CA INDEX NAME)



L4 ANSWER 67 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1986:111379 CAPLUS

DN 104:111379

TI Pyrazolo [1,5-b][1,2,4]triazole derivatives

IN Sato, Tadahisa; Kawagishi, Toshio; Koyakata, Nobuo

PA Fujii Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

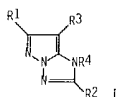
DT Patent

LA Japanese

FAN, CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 60172982	A2	19850906	JP 1984-27745	19840216
JP 04056835	B4	19920909		
US 4621046	A	19861104	US 1985-702691	19850219
PRAI JP 1983-45512		19830318		
JP 1984-27745		19840216		
US 1984-590818		19840319		

GI



AB Comps. I having good properties as magenta couplers are prepared where R1, R2 = H, alkyl, and Ph, R1 = R2 or R1 ≠ R2 and optionally substituted, R3 = H, halogen, acyl, nitro, amino, or substituted amino groups, and R4 = H or aralkyl groups. Thus, I (R1, R2 = Me, R3 = Ac, R4 = CH2C6H5) was prepared

IT 93846-40-3 100593-69-9

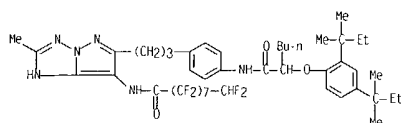
RL: USES (Uses)

(magenta couplers)

RN 93846-40-3 CAPLUS

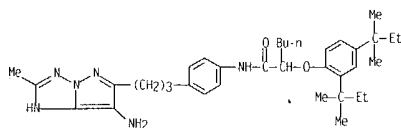
CN Nonanamide, N-[6-{3-[4-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxohexyl]amino]phenyl]propyl]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-

L4 ANSWER 67 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 100593-69-9 CAPLUS

CN Hexanamide, N-[4-{3-(7-amino-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl)propyl}phenyl]-2-[2,4-bis(1,1-dimethylpropyl)phenoxy]- (9C1) (CA INDEX NAME)



L4 ANSWER 68 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1986:12999 CAPLUS

DN 104:12999

TI Silver halide color photographic photosensitive materials

IN Kawagishi, Toshio; Koyakata, Nobuo

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 28 pp.

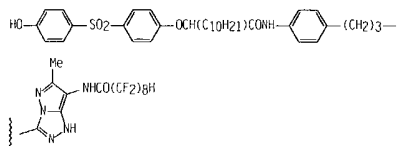
CODEN: JKKXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 60140241	A2	19850725	JP 1983-250345	19831227
US 4585732	A	19860429	US 1984-686955	19841227
PRA1 JP 1983-250345		19831227		
OS CASREACT 104:12999				
GI				



AB Ag halide photog. photosensitive materials contain N-containing condensed heterocyclic compound couplers, in which 2-5-membered rings are condensed with each other and the coupling reaction-active position is substituted with an F-containing carbonamido group. Thus, a green-sensitive Ag(Br.I) emulsion containing the magenta coupler I was prepared by using a conventional method, and the emulsion was coated on a film support. The film was sensitometrically exposed and developed to give magenta dye images with high relative sensitivity, high Dmax, and excellent light fastness.

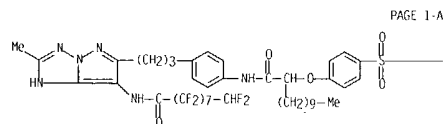
IT 99501-20-9 99501-21-0

RL: TEM (Technical or engineered material use); USCS (Uses) (photog. magenta coupler)

RN 99501-20-9 CAPLUS

CN Dodecanamide, N-[4-{3-[7-[(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluoro-1-oxononyl)amino]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl]propyl}phenyl]-2-[4-{(4-hydroxyphenyl)sulfonyl}phenoxy]- (9C1) (CA INDEX NAME)

L4 ANSWER 68 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



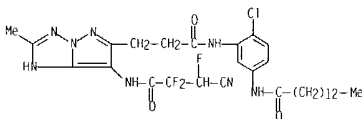
PAGE 1-A



PAGE 1-B

RN 99501-21-0 CAPLUS

CN 1H-Pyrazolo[1,5-b][1,2,4]triazole-6-propanamide, N-[2-chloro-5-[(1-oxotetradecyl)amino]phenyl]-7-[(3-cyano-2,2,3-trifluoro-1-oxopropyl)amino]-2-methyl- (9C1) (CA INDEX NAME)



IT 99501-25-4P

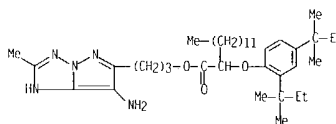
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in photog. magenta coupler preparation)

RN 99501-25-4 CAPLUS

CN Tetradecanoic acid, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-3-(7-amino-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl)propyl ester (9C1) (CA INDEX NAME)

L4 ANSWER 68 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



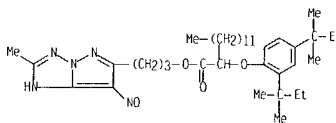
IT 99501-24-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reduction of, in photog. magenta coupler preparation)

RN 99501-24-3 CAPLUS

CN Tetradecanoic acid, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-3-(2-methyl-7-nitroso-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl)propyl ester (9C1) (CA INDEX NAME)



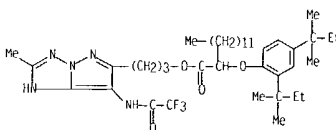
IT 99501-12-9P

RL: PREP (Preparation)

(preparation of, as photog. magenta coupler)

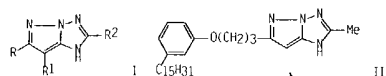
RN 99501-12-9 CAPLUS

CN Tetradecanoic acid, 2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-3-(2-methyl-7-[(trifluoroacetyl)amino]-1H-pyrazolo[1,5-b][1,2,4]triazol-6-yl)propyl ester (9C1) (CA INDEX NAME)



L4 ANSWER 69 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1985:36637 CAPLUS  
 DN 102:36637  
 TI Pyrazolo magenta couplers used in silver halide photography  
 IN Kawagishi, Toshio; Furutachi, Nobuo  
 PA Fuji Photo Film Co., Ltd., Japan  
 SO Eur. Pat. Appl., 112 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 FAN CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 119860	A2	19840926	EP 1984-301851	19840319
EP 119860	A3	19860326		
EP 119860	B1	19891025		
R: DE, GB				
JP 59171956	A2	19840928	JP 1983-45512	19830318
JP 02044051	B4	19901002		
US 4540654	A	19850910	US 1984-590819	19840319
EP 322003	A2	19890628	EP 1988-202586	19840319
EP 322003	A3	19891108		
EP 322003	B1	19930623		
R: DE, GB				
PRAI JP 1983-45512		19830318		
GI				



AB A photog. magenta coupler producing good images free from subsidiary yellow absorption is a pyrazolotriazole derivative having the formula I (R, R2 = H, halo, aliphatic or cyclic substituent; R1 = H, coupling releasable group; or R, R2 or R1 may form a bis-coupler, or R, R2 may link to a vinyl group of a vinyl monomer to form a polymer coupler). Thus, 300 g of a green-sensitive Ag(Cl, Br) emulsion containing 13.5 g Ag and Br- content of 45 mol % was mixed with coupler II 5.5 g in trioctyl phosphate-EtOAc (15 mL each) solvent, 10% aqueous gelatin 100 g, 2-hydroxy-4,6-dichloro-s-triazine, and Na dodecylbenzenesulfonate. The mixture was coated on a cellulose triacetate support, overcoated with a gelatin overcoat, imagewise exposed, and processed to give an image with a maximum d. of 2.6, a maximum absorption wavelength of 536 nm, and a subsidiary absorption d at 420 nm of 0.049.

L4 ANSWER 69 OF 69 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)  
 IT 93846-40-3P  
 RL: TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (photog. magenta coupler, preparation of)  
 RN 93846-40-3 CAPLUS  
 CN Nonanamide, N-[6-[3-[4-[[2-[2,4-bis(1,1-dimethylpropyl)phenoxy]-1-oxohexyl]amino]phenyl]propyl]-2-methyl-1H-pyrazolo[1,5-b][1,2,4]triazol-7-yl]-2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9-hexadecafluoro- (9CI) (CA INDEX NAME)

